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THE
BALANCE OF PHYSICS.

THE

BALANCE OF PHYSICS,

THE

SQUARE OF THE CIRCLE,

AND THE

EARTH'S TRUE SOLAR AND LUNAR DISTANCES,

DISCOVERED AND DEMONSTRATED, AND BY ASTRONOMICAL FACTS SEEN IN THE ECLIPSES.

BY

EDWARD DINGLE.

"The secret of the Lord is with them that fear Him, and His covenant to make them to know."—PSALM xxv. 14.

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PREFACE.

WHILE I, herein, again enter on the arena of testimony, after many years' silence, respecting the verbal accuracy of the Bible to scientific data, I wish it to be understood that I fully believe in the sufficiency of the evidence to its Divine origin, by the historical record of past ages, to any honest enquirers, and by that witness to the miracles God has wrought thereunto as attested; and its aiding to civilize even those who refused to adopt its faith by the fulfilment of all its prophecies, so far as their times reach. To our day, and, especially, that in spite of the enmity of human pride and self-will, its gracious, holy, and authoritative doctrines have always, through all time, had those who submit finally to their power, although all have confessed their natural rejection of them at first, in self-will, ignorance, and first dislike. But in our day, the chief attack against the Bible has been on the subtile grounds of natural fact, although it is admitted on all hands, that science is but imperfectly understood in its roots. Enormous mischief has been done, and so it has been felt by other godly men as well as by myself, that whether in respect to natural or revealed law, God's holy Word should be exalted, and subtile gainsayers refuted: hence this work. It may tend to the conversion of some beating hearts, seeking they may find the true purpose of their Creator in them, by removing difficulties. Further, because true believers are satisfied that the Bible is of God, must we refuse to become acquainted respecting any of the matters He has been pleased to lay before us for our learning? (Tim. iii. 16).

Is not such an idea, after all, of their laziness, or in preference to mere worldly pursuits for gain? Are not all the ways of Jehovah of beauty and sublimity? and the more they are examined the more do they impress us with His glory. Also, are not, through all the Scriptures, natural law and its resources the types to aid the better understanding of spiritual things? How better can they be seen than by looking through the whole temple of nature's fundamental laws in aid? Had the prophets these narrow prejudices, could they have written as they did, poetically? sublimely? Are saints to lose the brilliancy of what God has revealed, and is working all round us, on those keys for our conception of them, because mere scientific witlings have made a mess of it?

All writers are called on to admit the value of helps they have had from others gone before. Hence, all through this work, whether it be from Moses or any others on observed facts, the reader will find I have freely admitted it to their honour.

But further to the glory of God, if I, by the aid of the Mosaic institutes, have, herein, presented great discoveries of law and science (which others have by all admission utterly failed in, and actually given up as hopeless), and carried in the proofs the evidence of the value of such aid, must not this, as matter of future incontrovertible history, be of great value to strengthen the Christian Church, and bring glory to our God for His goodness in the assistance provided and admitted? Man is, in no place, supposed to be allowed to be indifferent to the glory of God as the Creator, whatever higher claims He has as the Redeemer. But the "seeing eye" is always spoken of in the Bible as aiding the hearing. The law is the schoolmaster to bring to Jesus. So is Nature by it. All, at sea in a stormy, dark night, realize the value of the needle, and the quadrant at noon to guide the way, and are prepared, for a moment at least, to say of each point in science,—

"His mercy endureth for ever." *

Yet, here, it is mercy to the weak and ignorant laid up in store, to be studied and found out to the glory of God, as in all cases supernatural alike,—

"Ascribe ye strength unto God,
His Majesty is over Israel,
And His strength is in the skies." †

EDWARD DINGLE.

19 King Street,
Tavistock, Devon.

MOTTO OF SUCCESS.

"Thy word is true from the beginning,
And every one of thy righteous judgments *is* for ever!"—Ps. cxix. 160.

---

* See Psalm cxviii., all through, where mercy in Jehovah is found by the enlightened one. Also Psalm lxxxix., from verse 5 downwards.

† Psalm lxviii. 34.

THE BALANCE OF PHYSICS.

INTRODUCTORY.

As I have undertaken to demonstrate my points, presented in this work, by arithmetical, and known astronomical facts, I would here also observe that the Bible makes the whole complete only at the initiation of man to the rule, with the reasoning powers whereby he can use all the natural properties within his reach, at design, and so imitate his Maker; and the fact that he does so, proves the truth that all nature is so instituted under rational, just design by its use at the hand of the Creator Himself—the immaterial One. Nature cannot be the simple tool, at will, to any degree of a creature; but although his forces of action are under her, yet, by Reason, he has some possession above her. Hence, if I introduce in due time the common terms gravitation, heat, &c. &c., to explain phenomena, it is simply on the same grounds the Bible does—*i.e.*, as God's actions, in divisions, without contradiction on origin, but for convenience.

Several years since, I forwarded the calculations for the earth's lunar and solar distances to the Committees of the British Association, and had the receipts. If proof sufficient was wanting then, I do not think it will be so found herein.

I even then thought of publishing the evidence, but was hindered by a fire at my printer's, and soon after I met with a work entitled "Upton on Physioglyphics." It was quite new to me, so I borrowed it.

In it I found, under the head of Lady's Postscript, that an error in mathematics alluded to was held. "Why mathematicians, though employing all their ingenuity about them from the earliest times, have never been able to arrive at the solution of the two celebrated problems, now abandoned in despair, *of the trisection of an angle and* *the quadrature of the circle.*" And that Baron Dupin held that to attempt either "will be wasting time in the pursuit of an impossibility."

To find where the difficulty was, soon after—as a sheer exercise of the time—on a rainy morning, while at Truro, I went to work, and succeeded in getting the results of the Diagram 3, under the head of "The Birth of Numbers."—*See* Index.

Having then found a key for the marriage of numbers to spherics, I followed out the point, and so far succeeded in time, as this work now presents.*

About this time I also met with the "Curiosities of Literature," by the elder D'Israeli; and from that, what he calls "The Six Follies of Men of Science."

On what ground the pursuit of the multiplying *power* of the cube, or the square of the circle, could be put down with the search for the philosopher's stone, certainly amused me, although it somewhat astonished me also.

If the fact that some point in pure science is to be given up, merely because it has, as yet, puzzled many to find it, then all attempt at progress for "All Truth" is over; and this the declared gift of the Holy Spirit to man at once ignores Biblically. So, while I was at work to attest the exact accuracy to natural law for a synoptical key in the first chapter of the sublime Book Divine, it became a point of import to secure as much evidence as possible, and would be to the glory of God, and add another charm, although only directly on physical roots, by this boon to society. So I have added a host of points to those mentioned. The square of the circle I finally found, by keeping to the Mosaic radius 7 over all decimal fractions, and have been assured of it over ten years.

In the meantime, the evolutionists have had a host of opportunities to attest their theory; and, like the priests of Baal, have done nothing in roots. All failure.

There have been also, for finding the distances, amid the astronomical circles, several transits of Venus, and a splendid eclipse of the moon in 1884. Yet have they altogether missed her value on that point. So, by all admission, the evolutionists are yet on hypotheses of fancy, and the astronomers settled down where they were before—on a mere approximation.

---

* In this the root for the square was at once found.

LAW.

To attain wisdom so as to secure a primary root for all true knowledge, we require a clear idea of the need and character of law, if it be only for a child's game. The materialistic objectors to the Scripture data by the forces of physics make their rejection of all miracles a *sine qua non* on this supposed right. This they ground on the general immutability of nature's action by experiment. Jehovah's power to alter such laws they deny (if they profess not to utterly reject Deity); they impute, then, to Him no omnipotence, and so Deity does not exist, or, in fact, "There is no God."* Now, if in any society, household, or between but two friends only, constructive conditions for mutual action do not exist, peace could not reign or mutual profit at all be secured rationally. But set-regulations amongst men for the general use never interfere with the right for exceptions on the particular occasion demanding them paternally. Yet these exceptions should not be more often occurring than required, so as not to be held a part of those of common need. Also, they must be known in one mind original.

The time-piece is the necessary rule to all good order, whether for the Indian with his warriors by the natural system over all, or the instructed household by their clock. Hence, this is needed before further law is introduced. So it was in the history of creation according to revelation. The Father, who made His own time-keeper before His children were born, intends it to keep constantly accurate paces in the parts; but will be wise to even stay the hands, or set them backward, and then right again, to prove His claim to be the inventor or maker, if He be so. The fact that He has done so once is no proof against the purpose to wind up His instruments so that its times shall give a true report—general—or that order may thereby be secured in all operations between parties concerned. Hence this care,—which the Bible declares was that truly needed, and so the wise way of God,—introduces the idea respecting all intelligent constitutional law—prescriptive. This first step, as a revelation for sight and sense to notice, is of Jehovah, to meet the conditions he made man to understand by. It is a revelation of His will, practical over all—order by times and seasons at His hand.

Thus, man, being made in God's image—*i.e.*, to be ruled by intelligent means to his conscience, but by means of senses,—finds he has for all corn and wine and social happiness, besides his times of praise and devotion (rightly demanded by his beneficent Maker), to be ruled by law set in creation, and to be seen of One who is true and correct to keep it Himself. The astronomical times are of Him and to Him, as in His hand. Hence God saw it all good; and so astronomers assert the times keep truly by every orb of heaven. It is a true chronometer at work under a system of universal unity, by law doing their squares of circles. But these laws over all must be such, rightly, that their evidence is clear to show forth a Master—their Giver—to be such, and their constant sustainer. So, of all natural physics used in utmost modern or ancient success, no part natural can be put to work but that the derivative and course for its continuance in motion can be traced to a cause over it from without the body of that working machine. The same over inventions. This, we shall prove, is as true of the laws universal in Nature. They all speak of dependence direct on their Creator for continuance to move or live.

---

* The term God is derived from "good," and is attached first to personality, next to character, as the one "good" essentially in all attributes to perfection. Hence, benefactors amongst men have been dubbed their gods.

These laws will be so searched as to prove they cannot work themselves as of nature innate at all; that can be only so "imputed" by the true savant.

To assist our research into nature's operations and attest this fact, God has given us the creative history before man's day, in connection with a set of working types, which all wise men now desire to see all calculations for order set under. That is, the decimal system of arithmetic, as of numbers or weight on a normal unit, to work over plane and spherical trigonometry, or the measures geometrical. This is so far admitted that the effort will, I think, lead to respect. The evidence I then leave to the reader, as to its effects by the Spirit of Truth. All the changes are called truly, like by our figure-rights in the productions—"The Generations"—whether of the good and true, or those of false use: rights by natural right-doing; wrongs under wrong-settings of the sum. If wrong is done, it follows that no corrective action for more care in reaping and sowing, could follow; nor future improvement, if Jehovah did not seal the wrong as of His will, to prove it the work of a responsible moral agent, whose greatest source of happiness is in the witness, when right is done, and the blessings providential follow—self-respect, and the assurance it is not a mistake, but is fully worthy of acceptance by others, God and man. By those rules of law, the meanest parents claim to be the teachers and attestors over their own children, and without which no order at all, even of a savage's cabin-character, could exist; but all creation must be a chaos, physical and moral. Then, all must be taught, or revealed in word, before it can be known for carrying out.

Without this, children, or Adam, as man in full exercise of puberty given at once, could not know these laws. Then, or now, no father could be worthy the name who did not reveal them in due order, with all others of social requirement, moral and spiritual, by the oral means the child can best receive them, and in time to put them into execution. Hence, a paternal government educates all by one law. That God did this, the Bible truly declares to His honour, as the Great Father of all; and so of God, as a spirit essential, mind eternal, who could not be so seen or felt, He used a form, voice, or light for a system of reception dependent therein on His creature; and the fact that He did so is manifest, as the Bible relates. That is, by coming down to that order, and taking a form which could be seen and heard at first, and at once, by man. Otherwise how did ever, or could ever the idea of Jehovah, such as He is in His essence, exist first at all amongst us. That He did so reveal Himself at the earliest age is proved by the fact that this conception of Him has come down from the earliest times, while the idolatry of man for creature deities proves his dependence on such a predicate so to have a just view, essential or at all. Those who profess to own a Deity otherwise, make him the unfatherly one, which is no God. Again, law, therefore, must be the declared will of God—the true and worthy, and appear such in all respects, and be so set before man, whether physical or moral. Our present business is to attest it in the physical by its known resources of science, or its law, to be seen "good." Man, by any degree of innate character or wisdom of his own, could not even conceive there is a God to own him, or would suggest the idea without the predicate, Revelation.

SPACE.

A COMPLETE idea of this question is of the highest import, as no state of being in life, or material unity, but must have space for its dwelling. The same of a spirit. Now, space, by eternal necessity, must be infinite; for if we came to the end of all material, finite, and proportional existences in any direction, space is the further on; whether empty or full, space exists. A hindrance to the far off would occupy space. No hindrance as a medium of progress, would be space only. Space merely such is, however, neither mind, spirit, and soul, or body. It is simply impotent, unconscious, unintelligent, eternal emptiness, without power to resist active use, or obedience to use. Yet, without either, it is simply at use of all, or any, according to their or his powers, to operate and work within it, to fill it either with self, or things made by self, mind, or material. Hence, space, if called an existence, has no means within itself as simple space, to generate or make one atom, or to give any power to use them when made, having no means. If it had, all observation and experience show it would render all law hopeless to the hand of any mind, person, or spirit resident within it. As infinite, it cannot but give itself to the use of all at will and power, and no more. As the impotent infinite, it cannot find a rule of proportion to decide, by any power existing of nature, so as to act over proportion, which, to weight, must be finite in all, by each part. Hence, the proportion it is used at, by the finite to the finite, must be decided for it by one who has a full power, and exists in all space as its user. Thus space, as it could not decide the point for the habitation of one created thing, teaches us, as it has been decided for all things extant, that One ruling over infinite space does exist to use it. Space, by its natural emptiness leads us to know that there is One Imperial resident in its infinity. That is, One God. Hence, all selection within space for a "beginning" of the generate, or created, must have been by Jehovah; for things made do exist as to time and the point to begin. Let us look to experience and practice.

No boy on his slate at school, no artificer, builder, or inventor, consults in the qualities of space, as to its power to act with, operate on, alter or affect his object. He wants a space. He must have it. But the more clear for objects to be used in it the better. His creation must have its own space, at his will, unresistent, but obedient to his use, or come into use with things already made at his need. Matter he has to use, and he has to consider its every practical quality; and first of all the space it will need. But finding that at his use, free, its utter impotency, except to the measure he wants, is a necessity to the making and further operations of the thing made. If its infinity, primal, could affect it in gravitation, heat, or other faculty, he would be at once thrown into a dilemma, as to what the result would be. Also, the infinity at any material faculty known, must crush effort. If a boy, leaving his sum unfinished, or finished, on the slate, could believe space alone would interfere, his mind could have no peace for exhibition of "seen good."

A house holds, to the judgment of the builder, so much space. The space was there, immobile, before he began to act. If the house bodily be removed, it occupies another part in space, but the old space has never moved the smallest measure. It is fixed in a rest-state universally and eternally; at God's use and man's, but immobile in self, and insensible to mind or hand. No power exists to move space. All to be done is to remove within space objects or persons.

Thus, to all experiment, the entire subserviency of space to find the measure for all finite things, with its sheer impotency to generate an intrusive atom, or property in an atom, is an absolute necessity to the use of law under divine operations. Providential judgments would not be true to law on other terms, for the abuse of matter at human hands. Hence men, as the Apostle Paul taught, are practically without excuse, who do not admit the existence of a Creator God, but suppose matter can be generated by mere space as of itself. Yet space, as in itself sheer open emptiness, has, at use, a degree in God's immeasurables. So that it cannot be filled full with any body or thing, or set of things made to act together on proportions of power in time to measure; except as hence it is at the use of Jehovah as the Infinite One, in which He has decided the place, value, and proportions of all things—the dwelling Spirit for all. For if, having been done, it must be done by Him, "In whom all things consist, and in whom all fulness dwells"—the infinite, eternal Mind, God. Space itself has no personality. But "God is." For He alone has mind and power to decide within the infinity of space, which dwells within Him, and He in it; what Paul the Apostle and true philosopher of old declared is true respecting men. "Seeing He giveth to all life, and breath, and all things; and hath made of one blood all nations of men to dwell on the earth; and hath determined the times before appointed, and the bounds of their habitation." Habitation here includes all spoken of in Genesis i. But this can be, and has been fully corroborated by experiment in all the sciences. For as space is but universal vacuum, considered, as men have, apart from Him who rules in it—God—then experiment proves that to be left alone in space, or vacuo, is certain death to all made. Matter, in a vacuum made at hand, does not rule by weight, the velocity of a feather to lead or gold; for to its length, by attraction at its end, the difference of weight by velocity attained is not found. Thus, without a medium to rule, as matter, gravitation has lost its rule on motions, to masses, for their proportions. Again, put a light into a vacuum, let the excitability to blaze, or hold heat, be what it may in the materials, it goes surely out; so light dies in it. Light must be *brought* in. Life dies in vacuo. Put a live body into vacuo, and the whole of the chemical forces for life directly burst and die out. So life cannot live by it or be of it. If a vacuum is made, and in itself is killing life and light, it is of utter darkness round all, and neither life or light could be generated by it or of it. Darkness must be then over the face of all for ever. Mere space, the hope of false philosophy to find all life, is death to all by all experiment. We must go off the latter to feed such dreams. Then, as proportion in parts of all made subject to gravitational action, under mass reaction in the heat carriers, is a necessity, so all the universe is but a dot in infinite space ; and so all creation is, as of matter, in a vacuum all round it. That is, in a scene of utter darkness and life hopelessness, even if, as matter, it should be generated to exist. Hence, without one who is not space merely, but is over it in infinite independence of it, and yet filling it as utterly distinct from it, nothing could be or has been but vacuum.

MATTER, OR PRIMARY CHARACTER, FINITE.

THE simple meaning of the above title is, a thing made and put together. Hence, it, at once, involves the act of some putter together, let the parts or elements held in each atom be what they may. This making or putting together exists in all things. For no object, finite, but has its subjection to division, measure of each part, and proportions thereby, however crude. Hence, the first putter of them together is their fitter. Which, hence, they must have in a first state, let the forces for generating changes of state be what they may, as initiated to His end by their Creator—the Ruler of law as its Giver. Whatever this may be, to be under a covenant for the action in the true and beautiful, law must, at once, be the holder of the proposed properties of action, at the Creator's use in fitness. If the created objects are to show skill in the results of time, by operation on each other in change, there must be initiated, in them, at once, these properties; which are to be, for ever, the integral root of all such changes, for chronology kept over all other points. If the object be to invent, in experimental evidence, any object of skill, such as a new game, the material must be from a crude state found in nature, but at the hand of the Creator of nature, then brought together and formed, at once, as the tools of the game. Now nature, entire, is but of a universe set to time and measure, by weight to measure, or the proportions of parts to the force in the mass of the whole. Hence, the whole must be finite itself, to have a rule of proportion to the part. Thus, matter has to be, between its parts, as one whole; a something made or put together for an end in view by some person, spirit, or mind who decides on the qualities which such matter shall be worked by, to show his wisdom and skill by the operations all timed in progress, and by use in time; and its first state must be, that it is different in duration from the essential state of every person or state which must be by nature infinite—God and space; yet of and in

God. Hence, matter cannot be of space derivable; but must be ***sui generis*** to all other states. But its proportions to any purpose, by any properties its working agencies are to be attained by,—its own, and of no other; that the whole, either ever so small or immense, may work to the proportions in every part. A school game the same; the law must be a mental conception first. Thus, in experiment our lines, angles, and circles belong to geometry alone; our integers to arithmetic. The latter may estimate the other, but as of two, yet unitable systems, they must be equal, separately, to proportion all parts of each department they are made for; or otherwise law and object are lost in a myth.

So, of matter, although made by an infinite Spirit, it must be visible, from time in nature; and also, different from space. It is an element, which of necessity to its work must be finite in measure, and all the properties it is possessed of, as in our arithmetic. But like our sums, the maker of the first set is free to make more figures to keep the working action of the sum at a constant point of progress, or to rest at home at his pleasure, only to be of the same nature or law in rights, whether grounded on mental attributes connected with matter or matter only. This roots all questions of transfigurations or rights of transmutations to proportionate changes.

INERTIA.

Much of the difficulty scientists have had in searching out nature's full resources has been through neglect of a due consideration of those God gave as types, and by the changes of which we follow all nature —*i.e.*, arithmetic—for the lines of pure geometry to be linked into action. What is the first principle of all triumph of success? Is it not the overcoming a difficulty? Hence, the onus must first be designed, and be evident in the action of that plan by the parts at work. In our arithmetical lesson, or in geometry, what is the first point to teach? It is this,—That a working action demands that each part be immovable as first set down, except by a right, at use, to be overcome on its claim of rest, by other parts to a rule for motion, and by the law in the inventions mental over it. So, one elementary property in law is, to show resistance to motion seated in all parts, by a degree, or rule of proportion, evident in the log. Then, this is "property," seated in each atom to the degree of the mass of matter it holds; and as a mass of matter, to a degree in space of measure, must exist, as a prior state for it, to be in distinction visible, and to hand. Now, to find that Inertial resistance, or dead weight, is next to mass before any property for additions come in, we must request attention to actual experiments presented.

Gravitation, or the rule of change by addition, has had the first state amongst savants. Let us fairly examine, whether it be only the secondary agent of a needed, prior, existent property, Dead Weight.

The first point then is, Can we find any experimental evidence of dead weight, being *a priori* to gravitation; or, justly, amidst all circulation for change, impute one? The need to find a mass agency to value the proportions of dead weight does not affect this, as of mass by mass through space. If two bodies existed in sheer space, gravitation, as we call it, being ignored between them, but only held to be at work on each body on its own centre, then a body of loose parts has pressure by those parts, over the centre; and we have to find the ultimate or lowest atom therein. But if it be a mass of solid glass, a mineral crystal, or a common ball, or other body glued into a unity as one, then it is, to other larger and more massive things, a unit less, and might be the ultimate of all. Gravitation is, however, set at naught; so to claim central attraction to hold it to that point in space. There is no circulation, or pressure for it, but the resistance it will offer to a removal in space is the same, *ab initio*, and is greater for another body to pass through it; and then, if this unit be the least of all the parts of a mass of those set loose from each other, it has the same weight as before; and may be a standard to proportion all other parts by of the agglomeration. As to arithmetic, which unlike geometry, is for circulation of parts, instead of all degrees of the "fixed" in each problem, claiming this inertial state of rest,—if we make a figure 1, it must be standard for resistance to all change in the unit value, to all the primal properties integral; and each integer the same, as it is imputed to hold greater values by those units added into a unification of the two masses, as 2, or more, each glued. Our integers are in this sense, used as of crystallisation over all their parts; and, like our actual crystals, subject to no change legally, except by properties acting from other bodies, which claim, by the law universally instituted, the right either to fall or rise, or go forward after the dissolution of the fixed state, even if it be as a cannon ball, to prove the force of the mass, by initial velocity given, without altering the unity. A globule of equalised fluid the same. The block of wood or iron which resists this has also its force more complete to the degree; it is not of loose parts pressing or affected by gravitation only to refuse division of parts, but has a decided inertial force by cohesion to make that resistance complete, in proof, that inertia, or resistance to the same shall be the first rule to show skill,—so, in figures, 3 has a power to divide 9. The unit has none, as every unit in the nine is its equal combatant. But units, in the rights of lines with others, are not as units in force any longer, to the mass of them, but decimals. Then, if the mass made for a unit absolute and integral, for all multiplications or fractions, has a rooted resistance to motion given it, and, yet, matter by matter is the law of the Creator to work all, by the integral rights decimal, or as said—"weight to measure"—it follows that all nature has to be moved from its tendency to dead rest, in a degree to the additions of units ultimate or normal in power, by the action of a new mass, which, also has, like our multipliers in sums, the same initial dead weight. That is, all must work against natural incapacity in self to move, by the rule of His mind to act on them through all time, and as made resisters by first law to show this. Then, although space cannot regulate, by a law of mass to mass, this to observation for man, as it can oppose no resistance, or proportionary action to this finger of Jehovah on any part of it; so one mass which can be penetrated by another, must be at once made; so that experiment may follow the motional values of all in it, as the especial firmament, which by its impact refuses in degree, to move out of the way to allow the passer to pass on against dead impact. Whether this inertial force be added to by another succession property does not affect this question at all. Then, inertia becomes of the practical class to the mass it has in law of even loose particles, or fluid globules for facility to regulate, and yet give way. All parts of any one integer should be glued together. Hence, experiment tells us God has taken care in the making of this universe, that no law, character, or feature should tend to ignore His existence by its apparent powers when correctly collated; and as Worker as well as Maker of all. That this is the case astronomy proves, as well as all other points for observation.

If the sun had a tendency, primal, to come to other masses, according to his mass, then his motion, and all motion to unity would be greatest in the greater mass. So, as this is not the case, but the greatest mass is the slower to show it, what is the cause? This. The inertial refusal to move, even in an equalised medium, to regulate the proportions of velocity through it, does not allow the mass so to rush through by the mass value united only;* but the dead weight *ab initio* gives equalisation in equal masses and means. But this adds dignity to the greater mass by means of the smaller rushing, as the

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* This was exemplified by the experiments of falling balls at Pisa.

Hence, we start here with a law which must be carried through this work as admitted. That is, that even the communication of a child proves the power of essential spirit, or of a communicating mind to a power of suitable value, to overcome all gravitation to the degree life, under will, requires; although for the submission to the association in good or evil in the use of material agents, it is but of a measure in command, the rest by submission to feeling, or wisdom before God.

So, it comes to this, before man was made as a free agent, able to use nature in evil, all creation worked as carried for good at the presence, in use, of the Great Creator of all, who *carries* all the parts for the changes.

PRESSURE.

In our types, arithmetical or geometrical, we assume that each separate figure is to be ruled, under an attachment to order in law, by its own centre; which, after attachment to another part, is to remain; and, yet, be fitted to operations in time and use, by the new centre made until itself is changed. So, in nature, by which we work machines, this is equally a law, after the kiss of kinship, or connection duly prepared, is secured. By all our additions, the power to move the whole must be new to all, or soon settle to rest in all. By this the rest power to regulate velocities depends.

Hence, in nature, the rest force, when attachment of two bodies takes place, must become an apparent living power to accomplish the end of adding to, and securing, the ratio claim to resist the power to give competitive proportions to it. So, for this, the value becomes a living one, or of constant weight on weight, to make $A^3 + B^3 =$ to AB^3 in one. Thus, the primary claim of their dead weight is but added to in evidence, *à priori*, although by its apparent opposite to the inconsiderate. So, in our integers, the addition of one to another,—or, in natural bodies,—each uses its own centre of gravity to rule the power in change over all other properties, yet, in subjection to the new one made by association for the quotient, new. Hence, apparent innate attraction only proves the primary state to be dead weight at use to a hand.

Both, so far, work only toward the old state, utter rest.

Nor could the apparent contradiction be avoided other than it could in the use of our integers. "Union is strength" must appear in all. Hence, it tends to add to the radiatory forces for motion to bring back all to rest.

We will now illustrate, for a proof, by a diagram of utmost simplicity.

Fig. 1.—East and west show two points of a straight line as a distance. DD and FF, diameters of imputed solid spheres by their circumferences. Both equal in all respects as to density, &c. So, the weights are equal.

These have C for the centre in space between them on the line for approach.

The common idea is that some innate property of love, or attraction to union, will surely bring them together as the sufficient means. We propose to test this against self first. Now, it is also held as an observed fact, that the same property is at work in the two hemispheres of each globe, as by any line for it they do press on the home centres of each at once. Then, for the tendency toward C, this cannot be ignored, if a fact of matter by observation. Hence, toward C the supposed draft must be resisted by the two interior halves of each globe, as they are like two men pressing to the opposite line by the attraction on the two outer halves. And, so, the $\frac{1}{2}+\frac{1}{2}$ on one side is, so far, for, or toward, the centre C, but opposed by $\frac{1}{2}+\frac{1}{2}$ toward the opposite or outward line. Outward and inward sticking together, are thus proved equal by gravitation, and so neither can conquer; but all the mass active is as A^3 to A in dead weight, by the mass power subject to use by the Maker in A^3 or A in motional strength for union only. When brought by the using hand together at C, their pressure on that point is A^3+B^3, to resist removal, either by the supposed innate force, or any other natural, on the lines of all the circle. And on this fact depends all the proportions of motion by mass to mass, under an over-all multiplier bringing other properties for keeping up motion under weight to weight, to time and measure. So, it is at the force by the user and designer they only can come together; for the inertial resistance is always only equalled by the root for power of approach in right.

Thus, the words of One who fully understood his Father's working order over nature were true to science. "Are not two sparrows sold for a farthing? *and one of them shall not fall to the ground without your Father.*"*

But, further, for all points of this law we use fig. 2.

The diameter, AB, is the primary, within, for its proportional cube, as a mass in weight over the centre, and the cube is our root for weight to weight, primal. Then, DE is an extension by addition to gravitation for its cube also. By all practice admitted, EB, being double AB, the minor cube is AB, multiplied by itself twice to a standard in divisions of parts, or scale, to find the mass at equal densities without the smallest attention to different distances on the diameter to the diagonally greater lines, or any of the intermediate angles in radiation. So, for the mass by the extended cube, the same. The measure rules the mass on an assumed integral unit in the arithmetic, and the fact alike, thus proving their affiliation to Mosaic initiation. But if the distances altered the mass power in weight, or its equal associate as its maker,—*i.e.*, simple addition by equal units in the normal ratio initiated; then we should want to calculate all EB and each different distance on infinitesimal divisions of the radiative rights from the centre, and in fact all hope to find a law be over at once.

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* Matt. x. 28.

Hence the expression of gravitation is simply, *every mass appears to attract for union every other mass in the ratio of its mass,*[*] because it is so used in truth, at the name of the Maker for law, primal. But if a real desire existed in matter for union first of all, then, every greater mass must make a rush to its minor in a velocity at that degree, which is not the case. Thus native impotency is attested to be the innate rule of all matter in its first roots.

HEAT, OR SUBTRACTIVE FORCE.

Our present studies have only brought us to an increasing fixation by the natural state of matter, void of power to change, or a state only ready for gestation before birth can occur.

Hence, our position requires a means to bring in a new, efficient property, which shall overcome the crush of a mere adding crowd of atoms. Yet, this is a secondary, and so, subject property in primogeniture, and cannot upset the older rights and results of the nature by law; and yet, be a raiser of the state in character toward life. This is found by all experiment in heat, as the lifter of weight, and divider of compacted parts. We have to find its ratio both as a dependant on the former law, found, and for its success to overcome pressure. We deal not now with how it is raised, but its law of proportion principally.

All practice proves it may, by due fuel at work within, accumulate there in mass, and set there as it may, that it always tends towards the absolute perpendicular over equalised densities, as the standard agent in proof. Hence, its root power to succeed, involves the need of a means to success greater than the path it has to take, but with a general mass at draft equal, only, to the whole pressure; so, if mass-draft drew in the agencies only to its equalised ratio of the circle solid, it could not overcome the inertial power at all; for the power depends on the pressure, and the pressure cannot exceed the whole surrounding mass. But, being equal to the mass, the equal supply of heat within in power will only supply the state called Quick, or ready for birth. What we call heat, is God doing subtraction!

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[*] I sent in a demonstration of this to the British Association Committee at Exeter.

Thus the ratio of heat any mass can hold from a fusing extinction into space, or back, as the life-power of motion (its spirit gone back to the giver), must in all cases be equal to the mass force universal, or for a less object; and its action is in equalised conditions of that mass directly on the perpendicular, or opposite to the line of fall in gravitation, as 10—10. Hence the mass receiving the fuel power, must have a sufficient retaining value to overcome rest to the degree of the motion; and, when so set, must have it to prevent an equal perpendicular burst in all directions at once, like a mere bombshell; but exactly balanced with the whole pressure, that it acts on an angle of superiority by the retaining power in the mass on one line to another weaker; so that the issue shall be by a balanced line of most ready escapement of the heat, to prevent cataclasm, when life and motion are needed to be at a state of constancy, safety, and peace. Also, the heat cannot be generated by a mass subject to its own constantly settling inclination for just use, as that only tends to total radiation of all within toward the perpendicular into space. Finally, let the angles be within ordered as they may,—it follows that no body, large or small, can be kept in motion without supply, as in all our factories, locomotives, personal bodies, vegetable or animal, and as the whole earth shows by summer and winter, when collapse to universal ice tends in the solar absence by temporal partialities. The law is the same to the universe by gravitation. Thus, the requisition for a make and setting of all parts of any machine, time-keeping at motion, involves the need to its being exact in action to reaction, for an ellipsoid, to work on lines, in a medium regulating it, of a pure ellipse.

But, also, to keep up this action, our previous decision for gravitation as the first law must exist. That is, all the mass by it must ever tend to condensation over the point of space once given it; any other loosening by tendency of a part toward another globe than that heat itself finds by a line of lesser density within for relief by, would at once upset the ratio for heat itself to work in. Hence, as in our figures the subtractive force at use can only be allowed to be equal to the mass of the figures made on the root of a normal unit to time and space. For its whole action cannot be greater than the resistance by old inertial power made a resisting agency over it. Nor can its just value, in demand, be greater as fuel required than the primal agent settled, any more than we can divide 100 by 1000 without a burst-to undue fractions. On these conditions only can gravitation, or simple addition, by a mere adding of figures to figures, be true to law in action.

The abstract power in a sum of automatical, decimal operators must have at ready use to the hands of the operators the same force, imputative of inertial resistance to change, and addition into the valuation of the whole line that a subtractive force has when it is set at work. So action to reaction starts on a sure law by correct laying or settings first. Hence, as all the mass used, for the setting at work subtractive action, must be of the same character, or real units, made, as matter to work matter, and so bring with them the old fitness to be settled over the surface into dead weight, by weight in them also; and as the action of change from place to place demanded at first its direct use by the Maker, and cannot be in the figures to be able by innate force to tend universally to unite; so the outward tendency must depend on His will and use. For if heat existed in the figure One, to any value innate, innate to matter itself only, then, not only would no fuel be required for the two globes, but the supposed innate attraction on the two inside halves by the DD to FF * for splitting in two would be extant, and by the additional action of such heat the two bodies together would tail off in streams, without hope of retaining unity of parts in any case at all, as distinct organisms. So, this property can only exist as at the use of the Creator, as in our arithmetic to our hand. †

FLUIDITY AND SOLIDITY, OR "THE DRY."

For a progress into practical law, the rules for the conditions should be as simple, yet full, as possible. The above two states in variety are so, and of the universal in exchanges. Gases go from that order into solids, and *vice versa.*

The fluids carry the easiest free-flowing power toward equilibrium; the solids form the proportioning agents, although each differs in degrees of activity within their own regions of office. So, to arrange for solidity in a higher force of rest, it is required that by action to reaction—law demands their roots of exchange to be for equality in degrees of the entire mass,—but at an ellipse to get up the difference for variety generally. Hence, these two powers will be duly required to follow the changes before inculcated of heat over cold, or inertial rest degrees. Then will follow the primary law of mass to mass in the working differences to gravitational rights all through the system; as experimental use demonstrates. But this does not hinder, to an increasing mass entire, that actually dry solids shall at last exist, although not at first.

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* Fig. 1.

† By the vital warmth a unit globule must have to be not a dead crystal, when two globules do come together they unite into one and recompound thereby for it.

It only demands that the first integers, as practical fluids, shall carry in themselves matter in its cold or solidifying issues, with a virtual degree of vital warmth equal, also, to the mass—*i.e.*, start as quick toward practice in life, fitted to generativeness of the new.

Now, all experiment that depends on matter having mass, must have a degree of solidity, and if to set at work for computation between it and fluidity a set of integral operators with the equal quantity of that property which gives fluidity for motion in them—then, as this is heat, the first nucleus of nature must have had a set of globules in which, be their ratio of difference what it may in these two qualities, the heat held was equal, as warmth implanted by the Creator or Generator of them, to the mass,—warmth infantine and practical only from His own loins. Then, as the pressure could not be equal for it to be held at a start, except on the neutralisation of the heat to that pressure, as of equal means to equal radii to cool for a holding skin, or cuticle, so the right state for the universe to start on would be of all waters carrying an elliptical valuation into a main circle, when set to work between heat to cold, or mass to mass for rest, or mass to mass for motion from a line, at the use of Jehovah.

This is exactly the case as imputed to our decimal integers to carry terms to terms only, before the especial setting new, but under it for the final balance, if factors to factors be set on.

Then, as the new fuel multiplying-power brings more solidification agency to settle, and the immaterial property, heat, to fly off, the means are in the hands of the Creator to get the solid additions He needs to any degree. As the heat-power may, and does, become a radiating one to entire loss, except new fuel keep it up at, or over, value in the mass old. But the "dry" must exist by an arrangement for an ellipsoid.

But the matter in solidity never becomes annihilated, but is subject to settle as a new agency in crusts from muds, and "waters" coming as gases, and to a degree over that of terms to terms. The fluid thus takes the lead in generations as to a whole state in the integers, tending, with supply constant, and only to its mass, in draft for quantity, to a mere boil of fluids on the integral changes of terms to terms. But the intentional purpose to get the greater solids, and "dry"* them into stiffness, is at the hand of the Creator, by giving such quantities of new fuel, fluid, as will expand the mass first, and then to reduce it to the degree required to implant the new solid, ellipsoidal matter, to get up the actual "dry." This word is the most technical. Now, this is entirely above any means to be accomplished, in which the first state of weight is to be the rule of quantity, in order to get the needed precipitate, except as the especial act, if the founder has to consider the ratio the old will bear, without bursting the state organical, proposed in like to, and features by, the mass new. It is the same for any precipitate in our foundries,—by extra, but not too much use of fuel.

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* In the original, the Mosaic statement gives us "The Dry" instead of land, as the especial object.—Gen. i. 9.

Then, the two forces fall back to go to work for rest, by earthquake and volcanic forces, on equal ratios at action to reaction, in setting of the ellipse.

The loss of heat at the surface serves to prepare the settlement of a cuticle, which will solidify, to be equal in power to the remaining heat within. This is health for a nucleus, by its generated organisms, under a flowing tide of life ; but only in that state leaves life conditions at a standstill as before.

DIGESTIVE OPERATION.

This realisation implies the association of things fitted duly to work a circle for either good or evil, at the right use or abuse of nature's materials; and that they may be brought together for health and happiness, in the "good" seen and felt of life, proves the possibility of the association being such at the will of God unto life eternal.

The actions of transmutation, transplantation, and transfiguration for reproduction of a new state, or the support of the old, is in this law. The changes must, as they alter positions of weights and measures minor, alter the whole form. So, on the connection of form, or measure to measure, and, therefore, the right form at first, they must depend for all to succeed. A deformed man has not best health. But, it follows, that as all these changes are successive in connection with heat, or a return to dead weight at its loss, so the ratio of heat must be in relation, by law, to all the states in depths or reliefs to the universal change by the ellipse needed for getting up action. And, so the first weights the same. Thus, the current run for a true state in any proposed object, as in all our inventions, must have been decided on before the first organical rotator to true times was a success; and the "make and setting" be settled for the first globe, all others to be then made to fit it in connection with the due action of all currents at operations. These facts are well known in the *Materia Medica* of experimental law.

But as in our figures the two leading forces additive and subtractive, may go on when other properties at computation are set wrong from different columns of the day-book for the ledger, or in the columns first of all, so in nature, to make it all to be followed by decimal integers the natural practice must be so far elastic at responsibilities mental. So, as in our accounts, if an error comes in, it remains for ever, if the user has no complete power (miraculously as it were), or over all the previous law of the system to set it right. The error remains as of a result to future states in providence,—as most men find who have brought themselves in debt,—instead of their supplier, to go on as being already paid and free aright to time. If an engineer could supply his motor with a full, perfect circle of matter, against waste by friction, as well as radiation, he would go far to set up the perpetual motion machine at a constant supply of fuel. This Jehovah can do. But it must be equal to keep up by universal circulation all the limbs of his machine.

ELECTRICITY.

THE title electricity, as of choice or elective will is, perhaps, the best selection of any term used. It involves that, although pressure and heat, as toward rest or motion in changes, will act over any setting of the integers to their simple properties for a change, yet, it is a question of the power for it, to a true degree for form and action, or wrong in the general congeries of rights,—either for too much cold toward collapse, or too much heat toward a boil at abuse, and so remains at the use of man for cooking nature's ledger. Hence, all the weight to weight, chemical sympathies and antipathies, &c., must be duly set to exact values to secure by the constant operation of these properties throughout nature the degree of solution; and so of the form. For matter being made to be indestructible (except at the power of the Maker Himself), cannot alter for a new place except it be to alter form. So, the principle of the proposed indestructible condition of matter, after decision to work by it providentially, is sure to be ever kept up by the consistent maker. Hence, the property for will in the rapidity of the figures at work, as time laws come in at a rule proper and entire by it—or of too fast or too slow according to the setting of the material at use on part to part. But as all this action is but of the whole weight to its whole heat dependence thereon, or the force additive or subtractive entire over all the parts, the solution can, when wrong, only introduce disorder amongst the parts, as we find by the use of gunpowder and dynamite. So, to all the universe, the supply of fuel, being "Let light be," it is a covenant kept up over inertial force entire,—and can only become misdirected toward a universal eternal boil. Which must be certain, if inanimate injudicial space could generate that force of motive, universal power needed, as some have supposed. What is then to regulate quantity of fuel?

Electrical force is now known to belong to all matter, and in some degree for choice by the human mind.

INTEGRAL, TRANSMUTATION, TRANSPLANTATION, TRANSFIGURATION, AND REPRODUCTION.

ALTHOUGH in the last paper these points in connection with the electrical line and power of integers, is introduced, yet it requires that a few points more shall be admitted in regard to the line they run most naturally on, *imprimis.*

In our use of simple integers, it is certain that we are at liberty to set any of the ten in any position we like to work their relative forces of digestion; but, so, the form to be developed thereby; and they must have a law of action for changes entire thereon at proportion by bondage primal. This rule is first taught a child as of the simple use for terms to terms, or powers to powers, having no design attached, as of factors to factors. So, in nature, the automatical solids, to keep constant to decimal values in masses and fractions, must do the same. But in all cases the action will, then, only show the results in a quotient by the ratios integral of the degrees 45 of the solid integers added they work on, at the perpendicular right of subtraction equal to addition. Multiplication and division following the *rôle.* For while the equal ratios as of resistances equal, cannot in dead solids command (as Fig. 1 shows us) to give any motion, we shall show that the ellipse of a line to a line is carried in the flowing tide of the integers themselves, when decimal power is initiated as circles to circles. So, the vital action on solid circles as of equal curves carried by the practical substitutes must do the same if thus generated to law. Hence, to any setting of nature's masses on her first integrated law, decimal, the equal line and hemispheres by any main point of supply, equatorial, must give two equal curves by equal resistances of mass solid to mass solid along a rotating polar axis. Thus, the heat, and its steam, must develop a double boil; one running equal southward to the other northward in any body in free air or ether,—or empty space on double reacting curves. An error in the setting for two equal hemispheres can here, only, alter the point of central gravitation; and, so, cause the body to rotate by rights of attraction, just to balance the polar axis for the perpendicular as before. It is the common law of a pot over a fire; only the lower equal escapement cannot take place by a refusing solid bottom at our use. Not so a globe in space. This in chemistry is obvious, for in most cases the experimentalist neither requires or is able to set his substances to a design, which shall do other than merely boil. Also, if he does, unless he has a means to settle the digestive action to equal reactions,—although he may set in a degree of rotation at first to work,—the bodies will burn down amongst themselves by the superior resistance of solidity on one hemisphere so as to fall into a boil; the final result of solid by heat, or cold by its loss at advantage. On this, which is the state of first law, even by units of equal power, as matter from space, this result must follow:—so, that without perfect ability for reaction (off the equatorial line, by to each one only ecliptic for ever) in God's design, nature could not have got one globe of independent action at work whatever to retain its times and form. The law is absolute by theory and experiment.

GALVANISM AND MAGNETISM.

It is clear that nature requires to carry another potent immaterial property, which, as arranged to law universal, shall show forth the action of the eternal spirit of law, in overcoming the last essential state for the boil only; and, while using its order as primary, shall command it so as to get up bodies of distinct orders in time and place. This is equivalent to a setting, under all the previously discerned rules, for factors to factors by design. It is our most essential point; and, here, we must find the especial resource for an antagonistic electrical line, to those of the boil, or terms to terms primary to nature. Now for this purpose, our use of the integers in arithmetic, as Mosaic initiation places before us, is the efficient aid.

We do not determine in our factors, such as pounds, shillings, and pence, to make them run decimally,—or, if we do, it is at a distinct rule from that of terms to terms, for their factor distinctions.

They are at use first over a single decision for a standard, which at once decides whether the axial angle, new, shall be fixed at 10°, or other higher number. Now this angle must so work to its own setting, and with all others afterward put at work on their axial angles, which must act and react, exactly, through all the changes of their bodies, in a settlement for the use subject to such axial angle from the perpendicular polar. Hence, to do it with chemically efficient changes, the ruling Mind over all nature has to do the same; and, so, as practical attraction, heat, &c., will ever keep it up on the rotation so provided, with the form and time justly incident thereto, and the revolution follows suit. Thus, as a natural property, bedded into the mass of each factor for a name, and a natural property to law decided for over all the factors universal, it must be subject to be so traced as of a fact to all observation, able to overcome the mere line of natural pressure by gravitation, so as to carry a line of fire, decomposition, recomposition, and motion in a new line to that the primary one of natural gravitation would allow, and, then, when its force laid, on its especial magnetical chord, designed, reaches the centres, it must become submissive to that first rule, of pressure, natural gravitation by equal hemispherical pressures to the mass layings gives; yet so as to be always a conquering antagonist only so far as to secure the full reaction of magnetical powers against weight. This will, then, secure an ecliptic of reactions over the equatorial line, and as form follows, develop an axially laid difference from the north side, as that of first laid advantage polar, from the equator, for the ejection of solids, to give the form; and, so, to make a difference in fluid and solid of the two hemispheres, and carry in the denser masses its own superior line for the rule of deposition magnetical. Depositing the galvanic battery in the superior interiors of its settlement. In all our sums, which this practically represents, we have no visible agent or apparent force for it, but carry it over our figures by the mind only. Yet, men exist who would say it is not such as the great Creator Spirit can do; but is of the elements alone. Yet, are the whole set of organical species, globes as others, so at work, that any, the least error from the first perfect setting at equal reactions, must deploy to give that advantage to density to get up too much heat; and so, burn down gradually to the boil for a certainty as all death shows out.

FRICTION.

At a previous period in scientific attainment friction was supposed to be the sufficient means to generate heat, and support entire circulation without aid from new matter. This, I believe, is now given up; yet it has its office in nature for our consideration.

Now, friction, without doubt, generates heat, and this supports circulative changes. How is it to be kept up? and why does it get up so immaterial a spirit by solids? Now friction is caused by the resistant degree for motion by one mass forced to pass over another.

It is not of the perpendicular fall, although that by the shake will cause, under attraction, a disarranging effect to the placings of the two bodies by living pressures. It is by that line across the line of attraction, we, on the perpendicular, add to the column, and so divisional actions, or subtractive ratios, take place thereby. But if we use a subtracting line, distinct from the other, the heat representative runs across the perpendicular line of fall and separations run on. Now for this there must be one line united in its additive weight, as the whole in gravity, old, to be acted on, and the new line may be lighter in quantity, but equal to run through all the older line, with radiating offsets and cold set-downs. Here we have friction represented. But after this the additive value of both lines, as of masses non-annihilative, to show the sum correct is there with place and powers; but the heat of friction and further changes to its right cease altogether, unless we continue to add for ever to the figures so set down time after time, line over line, mass to mass universally. To reach through the mass extant, there is a demand on enough; and a sum not so in nature, new for ever, must fail to keep up universal pressure so that heat in the proportions of the masses at work shall be evolved, unless we admit a more susceptible property. Now, all the mass over a centre all round is at work to hold that which has been received still—*i.e.*, quiet; for attraction works from side to side as well as over a centre for its point *d'appui* in rest. Hence, less in mass of the new could not, as we do, move away part from its stuck place, whether fluid or solid. Nay, it must be more, unless, as of equal in mass, the root for action is from another property than natural gravity.

But if the magnetical circle, attractive to above, of that power by which a little needle is made to rise against the whole earth's natural attraction, be, at use, in all, as a divinely given property, and be in the mass so set as to give a line of superior susceptibility, positive, to another negative,—then the new mass, although all of equal globules itself, in all properties standard, must attract the softer rising fluids of the surface most impregnated with magnetical force; and the balance being exactly set between negative to positive, over and through the whole mass perfectly, action to reaction by friction will be for a true line of rotation exact by heat to friction so caused, and circulation be pure and for ever and throughout by light new.

VACUUM.

If circulation is to be free and gentle for health, means must exist for it. Now, no form can circulate easily, that is of acute angles. Yet we have seen that the pure circle, or even the perpendicular boil—which, by a double ellipse, the integers are equal to keep up—must be altered into a superior. Hence the elliptical form is the purest, but by its angle of the axis must give more difficulty at an apsis of every body to that of the other. So it is of a degree of struggle to pass the winter. But with this form for all the working, primary integers, attraction bringing them to touch in empty space must leave intervals between. Living circulating pressures, then, through these spaces, force up the finer globules new; and so the vacuum is a need for life in peace. Without the ability to get this vacuum, the engineer, imitating in his locomotive the great moving World-Maker, could not succeed. We teach our children the need for spaces of ease, and no more, in setting and working times. We thus represent the natural vacuum. If the heat, kept up as by rising, relieving columns of matter, does not by the use of food, new, as long as life can last, relieve the pressure by attraction toward collapse, then hunger, pain, and finally death follows.

Yet to have appetite is a pleasure. So nature does not hate a vacuum, but must not have this in any excess to realise great pain. So all life is by the pump-principle—the need for a vacuum, and thirst for food from Jehovah's breast.

ENUMERATIVE OPERATIONS BY NUMBERS.

If we make the system of nature the one representative of the above actions, and which by numbers actual can only be followed properly (and to that end I adopt the old, long rule), then we have to consider the different operations, in order, to a fraction.

First, as to addition simple. To start the scholar with $1 + 1 = 2$, or $\begin{array}{c}\frac{1}{2}\\ \frac{1}{2}\end{array} = 1$, is called simple addition. This may be a most completely misleading title in respect to natural law.

If a child, on my giving it an apple, wants kindly one more for the sister, and I present one exactly like the other, is not this simple addition? So of gravitation—one drop of water or stone alike, added to one preceding, falls on the other, and only increases weight—there is no other change. But in the above two modes of setting figures, the algebraic sign, and the straight line between the units and the 2, have altogether claimed to alter the figures, and settled into the same value of space their corporate ratios. But by an adumbrative action transmutative, after dissolution has taken place of the old forms, it also claims a right to transplant the subject so transfigured. Can I do that with the two apples, so that the components shall form some new species of fruit? Then all the operations of our last papers are needed for the fruit of what is called simple addition. All the changes of our previously consistent forces have taken place by each property from real simple addition, which unites for electrical action to transmute; and neither can be left out, although the elective power for factors to factors, or even full proportion of terms, has not been secured in the setting especially, except by integers to each other by magnetical sympathies. But what of this power which sets mere terms to terms? Do we want other enumerations for factors of a set? Is such a balance amongst them? No; it is in the decimal system. But only at use, by design, perfect to any order proposed by need of a power fit. Now, our terms under the old, simple order of law exactly represent natural physics.

Addition is simply set in columns of each sum, when the amount of weight has to be found by weighing in the mind, and adding that of each in succession, like a grocer loading off his customer on a market-day. All set, at any time, belong to the sum-total made, adds to dead-weight, where there is no annihilation of an atom, to find the gross work which the power, horse or man, has to carry home, as another mass. Subtraction, however, acts with what has been already going on to set this sum. For the mind, to add the many weights into one value, has to do, between the figures, the subtractive operation to find, by heat, the sum finally to be set down. But what we call subtraction is, if line by a line, beginning at one point to "end" at the other, as it is finite, or without means to claim constant operation on a circle by a new mass constantly adding itself for heat. All this is chemistry as belonging to enumerators.

Could the figures speak and feel, as the sum was larger, they would want relief from crush by a setting of additions. By adding all the lines they might be told the power of the crush, while the action of life held in them worked to get under suffocation no hope of relief, except for the rising gases of the immaterial subtractive dying state supposed to exist for a time. For relief from that they want help from another sum-active, over the first, as new from without, to push solidly and mechanically through the centre and find a current opening. Police relief above is for heat, helping outside.

FORM.

We have so far proceeded, that heat does the subtractive act against attraction of matter to matter for utter rest in added impotency, or mere "dead weight."

Then, for terms to terms, we find, also, that as the resistance by pressure to compact a mass, is the full value therein, the order in the qualities of the integers must be such that they carry over the whole, or rather through, the command for ellipsis on terms merely. Thus, form is the result of the qualifications of integers in one sense, even to add up the weight of many columns. This, it is certain our integers carry, by the reactions on the new integer born for the action of the original solid ones, on a unit, or the mass original for all. One new is the generative cypher 0, which carries its axis perpendicularly.

This bubble declarer demands to add in new space, and sets the amount by the number of them required. So, as this integer is developed by decimal claims, the demand on space for the practical integers (the Mosaic record places before us action in all nature) rules the law for the extension through time, and is true to a covenant of the right on growths.

But multiplying first, by a set of figures, while it places the new characters made to get the quotient in extensions to the left,—by the value in the divisor from this first work of galvanic preparation, solid, —begins an exactly proportioned reaction to the right in a long wavy stream of figures for our quotient, although the value in the powers is not to rest down as in nature. But all her figures of the two currents are, as the facts of decimal law, ready for the constant line of the power over life sustained in their places. Nature blights nothing as merely mental, although only to be worked by a mind over her.

Thus, our boys' sums represent the current action for a pure ellipsis of numbers in the form developed by a multiplying power, to the fixed value in the practical ethereal divisor over all, and which last receives from a first value equal to command the centre of a denser seed, its share of the new power (in nature herself), so it is ever kept equal to its work.

But this cannot, even by a constant power, give the variation of the fluid values in lines over 9 to 1 for the densest approach to a solid, even by pressure over all, of a great mass to make muds, and then in reaction, refined gases, to the decomposition of light in mixtures; and, as this rule from 1 to 9 to 0 back to 0—9—1, is but of an action to reaction for a double ellipse boil at 90°, or radius for the pressure in cold fixed, it is clear that the ratio to get a variation of this form, must be set in by design, new to all. If the line of integral decimals is derived from pure geometry for the reaction on 90°, or a right angle, over the centre to the line of heat, so that the integers form of geometry are 9 8 7 6 5 4 3 2 1, then, if a nucleus be set in the ethereal medium less than this, or "unformed," the difference, however slight, may, at design, be set to develop on the currents a new axis by magnetical induction. This is the more the case, as this design is fed in the old value, as of an impregnation into the decimal ratio-simple, with new, transmitting, factor-grafting powers, setting in the magnetical ratio to fix (at this change of the body working over the form of 90° of terms to terms) the required reactions, but which will not be the case if integers,—if their mere, natural, rights decimal are only subject to be worked thereby, or in natural selection. Thus, the expression, "Let light be," initiates it as a new ruler, not for the mere boil of terms decimal only. But as the grafter in of the new property that shall fix the ratio-decimal into the natural integers of such nucleus; and so to work, that the degree they are less or more than the whole, shall become the root-settled for new values in the angle of reactions. For we have traced the form to be elliptical, even by terms to terms, on weight to weight. So light is, as the new power, an ingrafter of that resistant property to simple gravitation by heat (which brings back the whole order into a state of the boil or mere terms to terms thereof) by a new angle in the nucleus set for reaction. Now, gravitation by weight to weight is not here upset, but made to work to fix it always with a proviso, that neither has the advantage after the new force is settled in, as if one gets the advantage one way, the other gets it also, so that the error being doubled, both work towards the boil again, death. When this is given for magnetical setting, to fix the difference for the reactions, then gravitation alters the lines of all the currents to that of this new property for factors, as they work in multiplication for the boiler heart, the galvanic setters-up, and so, the electrical ratios all through from feeding and digestion, back to emission. Hence, the limbs, surface, and all the bowels, in their forms, are settled hereby to an alteration, although by a common system—*à priori* for all, by true integers. So, as all metals, limes, earths, &c., are of different constituents in the magnetical reaction from 90°, by the maternal root, so attraction in the centre will act on their rights, as a string to the child's Jack Ketch, to draw the solids together, so that the settling values of crystallography shall clearly tell the tale of truth, that God works all as revealed by the decimal decision of numbers to give forms, on their metallurgical and magnetical ratios, by measure to measure, as a science from which, by abstract truth, the integers are born. That is, of pure geometry. Then, as the system allows for variety, by this magnetical axis, to that natural, on infinitesimal ratios of the fractions in seconds of time to measure in degrees for the axis, so the provision is made for a stile of progress from the first ingraft of light-magnetical, to the lowest organical nucleus standard possible, for higher and higher degrees of variety, beauty, massiveness, and microscopic minuteness on differences, to reach what, after all, is of absolute reactions (as seen in the birth of mules to flux into absolute refusal); for perfect design regulates the sufficient divisions on the currents, magnetical and gravitational, to avoid confusion in form and character, by submission to the resistances of the degrees of law allowable, as only possible to the system of nature ordained, for a check on riot.

GENERATION.

THIS term is too often used in Scripture, as of import to divine designs in law as well as common philosophy, to be passed over, although already partially initiated.

To generate is not merely to make a thing. It is to so make the new, that it is the legitimate offspring of the old stock and a distinct individual at the same time. Hence, not only by this are all mankind entitled to be God's offspring, but are so called as springing from a first stock made at His hand, as Creator thereof. The first use of this term shows its meaning. "These are the generations of the heavens and the earth when they were created in the day the Lord made the the heaven and the earth." The term day being here used for an especial period of time passed for securing the gradual foundings and connections of the laws mathematical, declared "weight by measure," for a future association in the support of each part, to the order in the design up to man, under moral principles, these being, thus, included at once, for any claims over all, by such attributes to rule. Hence, Christ's claim as "God with us" to redeem His own by birth from that stock has His legal title, and to be finally transmuted divinely, or glorified, over all and in all nature. Nature, or the law over this, at the action of God Himself,—the one impregnator and developer,—is always called "She" in Scripture. Neologians have no Father-Giver,—Male at all. They are idolators.* The term applies to many things we ape. To make a table is not called generating one. But to connect heat to water, so that God works the natural law ordained, and steam is generated, and is scientifically so called.

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* Who ever heard of a female that could bear without a Giver of the seed for the generation of life from Him first of all, except Darwinians, &c.

But to generate the steam in constancy, and so to connect it onward to the iron that the generative principle shall carry the thread of life through to support all the parts above loss of the life-power, so long as the fuel needed over all is supplied, is what man cannot make or set substances to fulfil. Gunpowder man makes; applies a spark; and explosion is generated; but the residuum solid or gaseous is left for nature to apply to her use toward rest of both at their balance. Now, if generation is to go on by successions, the ***status mundi*** cannot in any body exceed the preparation of a seed, for the second representative of the same character. For the depositions must be of the chemico-electrical settlements of the body it is derived from. Then, also, it must be capable of being in a body ejected from its connection with the paternal operations of absorption, decomposition, and change entire, and find a place and circumstances that will, as the female womb, supply quite another action for future results to that of its remaining in the male. It must not be subject to heat for dispersion, winds to dry up, or other natural causes at work in air, or the upper firmamental heaven of natural changes, or in the loins. Hence, the idea of the future settlement of cometic substances subject to drift by the solar heat, and attraction to and fro, is entirely outside all science experimental and theoretic for the true and good. It is of sin at work. But generation to the will of God, as of nature, so far settled to its work, must go on, unless miracle intervene for a new earth or other world. The place of deposition to develop the magnetically carrying nuclei of birth, must be clearly an especial act of the Creator; or earth could not generate one at all. All resources of the earth, however fitted, must be cast up on the ground. Let the magnetical ingraft be what it may, by the supply of it in light, and its addition to the belly, and soils of the earth, by setting crystals all round the surface, in heat lost, at the further ether, whether for the boil or health of life. But that the square of the circle for such fitness to carry on generative roots, has been extant, is not only demonstrated in the righteous mode of one body affecting the acurate return of each globe to its orbital times; but, also, in the generative ratios for definite degrees of life, suitable for animal life in general, as well as vegetable constituencies after a due make, instead of for mules.

Hence, as for a globe, so for each species thereof, the inhabitants; each must have had the magnetically conducting line and interior reactions for limbs of a given value, to the ordained length of the days of life; while the genera kept up species by reproductions from loins in the male, and the womb of the female to the order. Also, as the maternal earth could not but send forth deposits, as of the heat projected and spread over the surface, where gravitation again tends to spread it further as it ran down the earth's slopes; so, it is clear, no organical nucleus could be secured by natural selection; and more than that, no male animal could generate an offspring on the same loose principles of law. The idea is absurd.

The simple fact, that animal life is so closely allied that species may generate a mule; which, however, finds no preparation in law to continue to act thereon; or that similar species—such as pigeons or dogs, as pigeons and dogs—with each other may carry on intercommunion of sexes, only proves that Jehovah has as closely filled the earth with variety as is possible to a law, by which mere hopeless confusion of character is avoided, which would occur if all could generate with all, so as to confuse distinctions of species entirely, or alone get up a new one. The same may be said to God's honour and kindness to man, by the apparent closeness of the links between vegetable and animal life. But in all generative action, universal, the rule of give and take, carry and set down, is not the less checked, yet linked, as otherwise the union of all into one system universal could not exist; like in one man's ledger apart from a distinct set of accounts. But exactly as our terms to terms cannot generate other than by the roots of their proportions, let any number of multipliers be added in supply to the first, *en courant*, by "Let light be" for ever;—so design alone must force on them a factor; and only wisdom to the connection of each, by time and places, between addition (gravitation), and subtraction (heat) could arrange the tablet universal, by a force against the character of the first layings; the terms being at the powers of numbers, not affecting this impotency of nature an atom. But any error must apply so as to give off from all parts false cometic depositions, with the false solids set down.

LIMBS.

It would be a difficult thing even amidst all the massive ratios of folly in science late years have presented, to find a man who would suppose that the necessary limb departments of a watch, or locomotive engine, could exist by natural selection, and the sure argument, that they could neither be generated by the earth's forces, or brought together after making thereby, without mental design in the use of natural means, would crop up directly. Then, as to limbs of organical bodies natural, how can agents of sure subduing destruction over them, when ill conditions to order come in to hinder the harmony of submission to the laws, bring them into existence? That idea of nature's contradicting omnipotence was of the wish, but not by experiment.

Now, we have so far approached towards limb-law in development, that,—after the nucleus, in fitness, is duly set, by a magnetical ratio—resistant to natural dissolution back to the primal currents, a sheer boil—the mass, at the multiplying action on a line prepared, could get into a unifical ellipsoid, by the immediate support of an upper surrounding free, fluid mass, which, as heat was radiating to a root, by the friction in mass values, orders,—by this upper medium pressing all round, that form, with poles of cold to heat, in that variety of operations an ecliptic of elect superiority in time, for the start toward one pole of cold in preference, became proportioned by the power over all: and so, tends to settle a real solid axis to rotate upon. Then the other shoots of relative cold, less than this northward and southward, must give the generative spokes of a great living wheel in solid arms. But let this be settled at work for the earth or any other globe; what follows? This absolutely. That a free arrival from space over all, of a constant, sustaining, fluid mass, able to support the magnetical ratio, of reaction to gravitation natural (which works otherwise to bring all back to 90° for the poles of reaction, in the two hemispherical boils), could only support the same state, let the quantity be what it might, either to awaken volcanic action, or only calm rotation.

The primary limbs would require their share of the more or less value coming, by the ratios of their rights of proportion, to keep up the establishment; and, so, any idea of another state appearing would but be excresence to ruin, as far as this means allowed for health in the "good" seen.

But it is by the right design to find that the hand of omnipotent wisdom is at work, or even the hand of the clever engineer, at making a suitable set of associations of the material of this globe into a new organical locomotive; or setting a flora at work in submission to these old laws of the mother mass. Here, no cause of ruin can occur, if it is but of a fair give and take order on loss to profit again under a heaven direct. Hence, it follows, that let the eras advance in the supply bedded in of new magnetical ratios, be what they might, to give a stiffer force of reaction to the action for obedience to the mother bed and line of surface rotation, by which progress for limb appearances, in advance toward the upright, could be attained; yet, that no limbs of any species could ever exist,—no male and female distinction of a womb and the issue for it,—except in supernal wisdom, at the hand of God, as Moses taught, is evident on known natural law attained.

THE UNIVERSAL FIRMAMENT OR ETHEREAL HEAVEN.

In our last papers we initiated this point,—that if a nucleus, primal, as of the lowest order which can be used to start species, or organised solids, is to be generated into a practical birth-state, for the further feeding of life, a suitable womb for the gestation must be provided first, into which the seed must be projected or made. This is precisely the meaning of the first statutes of the Mosaic record. The first thing mentioned for our practical application of the integral law and roots over all, is the firmament or heaven, which proportions all globes in their distances, rotations, and orbits as used by the Creator on the common rights of working addition, division, &c., or gravitation to heat, &c., and by mass to mass. In the fourth day it is again so styled in this respect, but not for any second gestation of a globe, which its loose field is inadequate to, but for regulating the times and seasons, &c., only. The air is called a heaven also, when raised by secondary generation under light; so that it is a field of experimental use and observation, in regard to the lighter one we cannot now feel the direct corporeal realities of, as matter made, although it must reach us through the air. What we have here first to consider is, the fitness of a medium of equalised atoms, or rather fluid globules, for the gestation of a globe. Then, is it not clear and certain that if in any medium of an equalised fluid—water, air, or ether—that this over-all mass must settle around exactly as the interior nucleus was for its body laid. If for a pure sphere, by a density of equal degrees in all parts spherical, so will the other respond, and at any disturbance so work for equalisation in the changes. If, for an especial purpose, the nucleus is off the whole integral reactor value, so, whether in line or for ellipsoidality, will the rise and fall at heat awakened, and cold returning, work the different stamps of the ethereal heaven in columns of due distinction all round on full decimals. As in our divisor for proportion, it is a set-down, by the will of flotation by gravitation, but after disturbance by the disturbers ceasing to act, it tends as surely to settle down to make all the mass a mere dead-weight in rest. The rule is known to be infallible. Also, as its resistance to let a heavier body rise out of its bosom cannot be overcome, by any thread from itself running without the current of a "power," so only could the power or multiplier operate to throw up a single fraction from the subject; as, otherwise, all the mass of its body is preparing to keep down the surface by its weight. So heat, by the power itself, must be awakened and force entrance. We first finish our multiplying, then divide—not so with Nature. She does the both at shorter footsteps, and as soon as one action is made there is a degree of reaction. So the links of the full power to separate globes, which are naturally not only subject by attraction to get together in a clump, but also to be kept aloft by all the weight over them of all the lighter medium (as to a foot square), so all the dead weight within any such medium must be equalled by the dead weight in force of the medium; which however being, as all fluid, subject to act by all its weight, at any disturbance to restore equilibrium in itself and all other parts, must have all its mass ready to act to raise a body within itself from its own centre of gravity when aided by a fuel power outside and new at draft. Now this follows on our previous premises, that as the mere pressure of a light mass on the heavy, either merely tends to keep that lighter body above, or so presses to keep the other down by mere mechanical action to rest, so it is only by the ethereal heaven, or any other medium being equal to act generically with all the mass it has to raise, under a swallow of it, with the multiplier or power (and so co-operate with that body to refine and raise the subject acted on) that any globe could ever be made to lift itself into a rise and fall operation. This operation then is of the same law and elemental connection as that at work to raise part of a globe to vomit up lavas or other heavy bodies, sunk beforehand in weight to or nearer the centre.

These points are clear, so far, as of known law. For if the power had to raise the body in its parts only, and the ethereal heaven did not assist in the lifting action, then not even a stone could be projected into the air. The power by the addition of a mere crude, unassisted multiplier, could not alter the comparative states of the parts of the multiplicand so as to separate any integer of it, as of a unity for a place, but only to add on by the gift its own dead weight thereto. As this is a point so compounded into all science, and hence will be constantly re-appearing for further illustration, it need not be further commented on here, than to say, that while we are multiplying in the third term to the second we are doing a work to finish first, which a proper medium does along the way with the action of subtraction and precipitates. In fact, we are using this heaven in theory and practice at once over fractions, not knowing it, although we cannot do them all together as Jehovah does. Some minds, however, succeeded in carrying columns of pounds, shillings, and pence on together by the mind. God does His mental act in this by the full rule of mass to mass for the final balance, decimal, of all the universe at once.

The upper ether having no fixed axis of its own, must work to finally get the balance on times and distances under the full value of the integers working the squares of the circle, although for action, at first, forced to work, as the nucleus is set for an ecliptic, unified from the double ellipse of the boil. It rules the reactions toward rest, and rise again.

THE FIRST NUCLEUS FOR A GLOBE.

THAT our earth has the same natural proclivities that her dependent offspring have, so that from a fluid sap—all "waters"—she could be developed into solids above the value of integers for their reactions only, is certain by experiments. The point is, what peculiarities must exist in the state of these waters, so as to develop a body not subject only to boil into equal hemispherical ratios,—or even by light, the material power, coming from one point, not show, as our tables of numbers do, when alone for a quotient true, the action as from front to back of an equal-sided cone, or oval.

For, in all cases, the reactions of heat to cold will be such as to develop a rotating perpendicular of emissions into ether of a true polarised axis at 90° to the equator.

Hereafter, we shall demonstrate why the decimal system of changes can be the only one for a mathematical canon of changes in spherics. We now deal with it on generally allowed rules of observation.

Now, between action to reaction, as 987654321 to 123456789, if left to natural selection in gravitation to settle, the first state to escape from the boil is impossible, even if all the properties of nature were in that nucleus; and the boil gives an axis of greatest heat central. But if the object is to get up an organical solid, then, while for the first made, as the standard all others must be secured to suit on to, it is desirable to have as high a root in numbers for the reactions as possible, so that it must be attained by the property which over all can carry the line of unification by heat in superiority first, for the chill, reactionary across, for the cold axis of solidity; instead of making it a material backing within for a right angle only of equal divisions in a boil.

In this case we need a property that is equal in power to all the others, and such as can be a superior divisor along the line to be worked, so as to carry the heat against all the primary lines by pressure; and, yet, submit to it on reaction for a return of the quotient in gravity.

This is found in the well-known electrical values at the command of magnetical attraction by the settings of such properties to their superior forces to readily carry the line of heat expansions and transmutations on its own superior path, by a due setting in design.

The first nucleus may be of a set value in integers; and, as for the earth, to work with the sun and moon the eclipses, at the highest degree of the integers, in such an "unformed" ratio as of compensations to allow the sun and moon with her to work out the visible evidence of the standard at their balances.

Then, as magnetical ratios are required to be as half to half, for the divisor of natural electricity by terms to terms only, so 45° of numeral integers, in reaction, become for the command over all globes at a requirement for their duties as $45° \div 2 = 22\frac{1}{2}$, and with such an allowance for a higher degree of personal, contractile, and retractile operations, as the sun and moon can work the actual standard by in the earth. And this is known for the earth at 23° 27′ for her ecliptic. By this, the natural selection system of an axis, all fluid by all the pressure, also boiling and hottest, is got rid of; and the line of the equinoctial carries, itself, by the magnetical issues it leads, the hottest value on the path of the ellipse rotation, and revolutionary. Thus, it is clear, the exact setting of every atom of matter on its magnetical power is an absolute requisition for any globe, even the first.

For why is the first no exception? Thus. As light is to bring on this property as the required constant supporter of it for ever, so, if the first nucleus is without it, but of a set decimal power, integral only, so as the reactions will be by it to the degree its centre is or not of all the integers, and so has only a centre of gravitation for the first impregnation of light on darkness, so, the new power must tend to submission by natural gravitation under pressure as soon as it reaches the surface for the centre at last. Then, if it did not come to a seed having the magnetical fitness in each atom to carry it on to true gestation and birth, for an organical solid by, the reaction must be to the sympathies electrical of mere terms to terms. Also, it must be in matter to carry it.

For this superior property, which is a well-known conductor of heat and motion around a centre, as set in the subject, comes to rule and yet affiliate harmoniously with the other properties of law not to upset any, and will only work to the call set in. What the proportional value of the earth's nucleus was will be attended to hereafter.

It is the electro-magnetical ratio which the paternal agent in all species has to provide as the seed of the infant state, or otherwise the female womb can only develop deformity on to sheer abortion.

The recent powerful and abused discovery of dynamite shows, by its tendency to react on its own violence, upward by downward also, with a host of other experimental agents, the fitness of the magnetical property to be at hand to carry a line of action across the axis, as the heat generator; and magnetical sympathies to antipathies at a balance is also well known. To show skill, the nucleus should start in as low a condition as possible, or a mere fluid, "unformed" and powerless in itself, or "void" of power.

MATERIAL LIGHT;

THE POWER OF CENTRIFUGAL FORCE UNIVERSAL.

WHETHER in respect of Physics only, or as typical of light, moral and intellectual, by revelation, this point is of the greatest importance; for, if to learn ceases, progress for further interest is over.

The fiat Divine, "Let light be," or be a material current new from God's bosom for ever, means that it must be a requisition to the earth and heaven, and all afterward of it settling to rest, be the additions what they may; otherwise simple gravitation or radiative action must drive off all the working fluids from the centre to rest under whole pressure.

Law could not begin even for subtraction without a legal, and, so, a material subtractor, and a new mass added to the old. Also, if the first so worked, the next would be less to act on; and, so a dribble, dribble into the more minute state for ever must follow, while each subtractor must still be of new matter. For subtraction is the settler to rest in all nature as well as arithmetic. Hence, it must be by a multiplier so set, that the operation required in form to be given, or for support against utter rest, shall proceed; for to any finite measures of arithmetical operations the quotient must get settled into final fixation.

But with a constant multiplying mass running current to the attraction in the body for life, by thirst, to be kept up, as the design proposed, the old will draw the new, and contact produce (by the life-quickening fitness, natural and magnetical in sympathies) the firm and steady, or more rapid changes, entire, needed by the supply; as oil instead of coal will the locomotive fires. Hence, the new mass must be entirely at work as *sui generis* with that laid. If the hen's egg is not chemically fit, not merely for changes by heat, which may only produce decomposition, but so as to cause the changes to develop the organism, or chicken against this order primary to the earth's forces on it, the whole will be a ruin, to what? The hen wants at sitting.

But without the new fluid producing the heat from some body through pores left open, the chicken will not exist. Fill the pores with lime and there will be no birth. So, by heat, there may be two results, both natural, but the one of design so secured by the "make and setting" in the egg derived from, of course, *ceteris paribus*, the design required to get the male and female,—the one as much as the other, as Moses taught. Now, if natural selection, or primary law, by the materials at work in the earth's system, with sun's heat or other agents, could set this, how could there be a liability unto both abortion and true organical action; with, also, means electrical and conductive by the brain settlement for that mental resource of instinct, memory, design, and all the final forces of it, for even man. Hence, each degree of mental force must be a result, in design, according to the root of time given, as the magnetical force is laying on to superior values within the earth; and by pressure and light from above into the soils; and, so, in due time, at a rate of progress for the paleontological table, animal and vegetable life could become superior to that elder up to man at the use of the hand.

The submission of magnetical conditions for superior quickness and regularity of action against pressure in the centre does not hinder its working the square of the circle, as its action from a line without follows towards the centre by attraction, by that line most imminent on the graduated curve of the magnetical setting to advantage; but must become subject to the full reaction, to give up all further results to both the pressure and attractions laid in during its entry; so that magnetical attraction still rules the radiatory ascent to the surface, to keep up the limbs, although to a final exit square to rest. Thus, circulation becomes entire, and the pores of all animals, and even of glass, prove that the heat expired at the passage of matter through matter. This subject will so often appear, that we need not say more on it now.

THE METALLIC BASES, COLOURS, SOUNDS, &c.

We find that the cohesive principle is, in a superior degree, set in metallic roots, by which the resistance to heat for all cuticles, to cool and form into solids, gains their forces to individualise objects. Also, that colours are found, by the evidence of the spectroscope, to have the same origin. Sounds, also, vary as the action of resistance, or blows fall on various compounds thereof.

Now, if the intention for a beginning to show most skill from a just nucleus (that is, one low in quantity, but of a degree of each metallic root, with all set in darkness) was to be subject to development in progress by additions of such matter, on an elliptical operation of the circle and sphere, while the power for the growth of all together to either ratio therefrom, to each claim, by the mass first given, also brought in the new colour, white, pure, and sparkling, to perfection,—then, it follows, by our previous premises, that, to the angle for the axis decided on, and set into the nucleus by heat to attraction, the sphere that had the nearest possible approach to 22½°, —the standard for their magnetic sympathies and antipathies—would be the one able to develop, in all the bowels, and surface-soils, the greatest resources, as the most varied field for the declaration of their charms in variety, and so be the fit standard for all the forces in creation to the instruction, as well as the light of an intelligent inhabitant by the goodness of his Creator—God—on a compound operator at use. All past studies of nature, by experiment and discovery, lead but to this song of praise.

Then, the constant increase of the power required to meet its past settlement, by cold, to belong to the old subject, will demand as constant an action on the angle, off the pure boil of equal hemispheres given, and, so, the progress of the ages must develop within the bowels all the various resistances to the earlier veins for a straight course; while forcing new ones, by the streams of light and heat drawn in, so that the variations which the geologist gives, with those of the miner, will occur; and all tend to develop in settlements, as of solid-crusted depositions, the bags of wealth in the minerals, metallic, and the jewels of crystallisation by settlements of ether at cooling,—stratas, fissures, dykes, veins, cross courses, rocks plutonic and secondary, &c., &c., to the *ad infinitum* of the scientist's vocabulary, will all appear, while the current force awakening the fire of penetration is drawn in by attraction, and propelled by pressure, to still preserve a course right through all, up to the degree required to find at last the more regulated operations for the field of man Edenic, in surface peace; while still preserving the thread of life-giving vitality, by light and fire, to constitute the globe a living organism, automatically worked by the Creator's breath of lives (provided to keep up rotation and revolution, to the order needed on the axis decided)—light. With this will be born the prismatic colours, to grow up to the rainbow edges, with all the infinite shades of colour we find existing.*

There will be, also, settled in the soils obtained by the decomposition of the rocks, and their vein contents under the chemical solvents for new conditions of light—ether, air, water, &c., &c., as observation sees is still going on.

Then, as compression and recomposition go on to disperse these metallic soils over all the earth's surface in decimal fractions, the resources are laid for the hand of design, where the skill is sufficient to unite their attributes, either to make a locomotive at the hand of man for his convenience, or the new species required to be the suitable inhabitants of the globe's surface supplies, with the new vegetation the same variations provide, at the compounding act of Jehovah. But, if it would be absurd to expect at the hand of nature the remains of a locomotive or watchwork, not made by design by man; how much more to suppose she could, contrary to her own rule of final dispersion in the soils, get the compounds to make one new organism, which, if not so set as to resist her action,* that decomposes it back to the command of her own system of law, must be melted down thereto? From the outer surface to the centre of the universe, and those of all organical distinction, the upper heaven must have its "set" and path, like air, water, or other medium, if there is to be one in which life can exist. How could attraction by weight over weight be universal otherwise? How magnetical sympathies tend to unite due fluxes only?

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* Ezek. i. 10. For the revelation type of creation glory in God to man.

That, at the reawaking of friction, sparks of the bedded-in-power—light—lying latent, must be expected to be found in all substances, and be emitted, in fire, by sufficient fitness for pressure, to get up enough friction; as of the nature heat, by a right of resistance, must be expected.

Also, as the vegetable growths draw their vitality from both the impregnated soils, and great surface claims to absorb light (by which the green only appears), so, they will be those most respondent, when either dead or alive, to the inspiration of fire, or even the friction of a hot wind to ignite, as in Australia is the case. But in metals, at especial fittings as less sensitive.

Animal life will partake of the same characteristics to the settlement for each, to get the axis and figure in the limbs, at the hand of the Allwise Settler of their status,—His "make." So, in South America, the birds are so vivid in colour, that copper has been extracted from the wings, proving the ecliptical preference of light to settle.

This then, follows, that when the earth was to be supplied from a solid foundation of light—the sun—his crusts, veins, and stratas must contain the same attributes, subject to supply by his greater mass-attraction, direct from the original point, "Let light be" in God.

So, as all the forces at work are grinding down, and chemically dissolving his solids, to keep up his rotation and revolution, there should be no surprise that the spectroscope determines, that in his rising volumes of gas the various metallic bases are traced, by the colours; and another, before unknown, found under that dissection, as belonging to the earth, which was the case. Then, this association, with the accurate development for it, metallic, gives to the ear of Jehovah that Æolian harp,—the universal music of the spheres; or did, when all was of the "good."

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* Crystals of metallic substances, deeply bedded into the earth's crusts and veins, prove that forces of projectile energy, for deposits of cooled substances afterward, have existed above the ratios of heat the earth now requires for her constant, but gentler, forces for times, at man's place.

ABOVE AND BELOW.

THESE are terms of common use in regard to relative positions in space. To understand the natural development for the difference will aid our studies. On our residence, as a sphere, our globe has all vegetable and animal life fixed or moving in it, like flies on a cheese; but looking outwardly, from all parts, for the rise motion by the heat power attained from the earth and sun. By this, like balloons made lighter than the same square measure of air, they are forced to rise; but the heat not inactive, as secured for a balloon, but still operative, forcing them upwards by the lighter rising gases at work within, under the pressure of air. So the line is different for each plant or animal, to the situation by air, over the earth's centre.* Now the earth's attraction by her mass condenses the air, and also the universal ether outside it; so that, as we ascend to the mountain-tops, it does not press as much as to the added columns of air over the lower parts under the expansive relief of the greater circle, at the height of relief to the whole attraction of the earth toward open space. Hence, as balloons all ascend in different directions—by the light gas got up out of coal by heat—and at the antipodes to opposite directions; yet are all "Up" as to the earth's centre, under the only cause of raising agency, the force of heat toward relief into open space at last, by denser floating pressures above; so the same cause, to be natural, must be at work for the globes of heaven, as to each other's scientific place, by weight to weight under heat to float, as it is generated by gases at work within them, which gases, as they are subject to radiation off from them all round, by the circle of pressure, must be kept up by supply, as we do columns of factors by the relief offsets to the decimal order in our ledgers of one to another.

In common parlance, if we could talk by a hole through the earth with one at the antipodes as to where the sun is, he would, at our midnight, say up to the sun, and we should then call it down.

In regard to the knowledge for the astronomical value of above and below, both would be wrong. Universal gravitation is admitted in theory, although, when at practice for globes, much upset as to its claims. But if we allow it, and, as is now mostly admitted, that an universal ether exists, so that mass to mass may be true through all space to which matter can reach, as Moses taught correctly to practical science; then it follows that, as the sun is immensely larger than the earth and all the planets—or, in fact, as to the mass in him larger simply than all globes—so he will tend, by his attraction, to draw all nature toward him in superiority; and so will condense the ethereal upper medium as a firmamental or mass ruler for the position of all the globes, to the degree his heat is supplied to their attraction; and also to the proportion for their given magnetical sympathy in these parts, to be able to accept and assimilate his light gases rising from the pressure of all his body, and then of all around; except as it is kept up by light from God for his support in his own motion, while being the true Hercules, to have all the burden of the universe to carry and wield around him, —a true type of the Christ. This portion he gets, and in the true astronomical sense, he is as much below all the globes that circle around him, as it would be to all ballooners floating all round, the earth is. Our earth's rotation and revolution do not in the least alter this.

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* But for the "make" in design, to fit the magnetical variations for chemical changes, these rising masses would all be straight, like the quills of a porcupine.

Thus, it is by the universal law of a heart pump-agency of ether around, as the arm of pressure, and the support of interior fluidity from universal crystallisation of all matter by the action of light, supplied from God, ruling those columns to rise or fall. So, for the rising care of a man when lying down, the chest and upper parts of the body are the most hollow, to receive the pressure of air over the gases ever making in life.—In death the opposite. If the balance was not exact to ease, but not necessity, or in great overplus, he could not use the earth's attraction as a base for standing strongly by. The same for the angular lean of the earth and all globes. The earth's northern hemisphere rises furthest from the sun, because so long as the radiating gases all round are supplied afresh, the interior hollows hold the more of that light matter by her magnetical angle of superior conduction laid first, than the south, by land.

The proportions for birth in gestation remain in full action, although at a different line of supply over all, for support also.

It is by atmospherical pressures, as resisted by heat, being outwardly in its compounds, that above and below are really at use,—"a pump."

The question of what direction the angelic heavens are, is not attainable by natural facts or law, to the eye. It is enough to know that the earth's source of heat is from below her, with all the ethereal heaven above pressing it into her centre; by the bottom at rotation through the seas fastest toward the boiling centre.

TIME.

THE need of correcting our actions, as to their velocity, is clearly admitted by all just men. But the rule for it must depend on the material order at which the elements used, act on, around, or within us. Now, God in the Bible introduces time, for natural changes, as a point of necessity, in His hand. Although, when He has settled the root for the velocity of changes, He also has made a covenant to keep to it. For instance, when we have our full set of figures made, with all their laws or properties in operation, yet, no two persons will be ruled by that, for the velocity of their working action alike. Time must, therefore, be an essentially immaterial mode of computation, or order in facts, at the will of the operator on the agent's first. But if the order is to be for a set of rules for others finally, at the changes, then the velocity of a notation of time must be set into the action of the automatical integers, to some ratio of which the mass itself works the key,—mass to mass set on a unit continued. This is, then, at rule for the time by a definite measure to measure. Thus, a unit of light being the lightest, and the working agent over all,—time, must set on its mass and unit property ratios, entire, the value of the first notation in time; as it is by its work opposed in reaction by the globules of ether, dual. Still, the velocity for this must be at the optic primals of the first holder of transmutation; so regular ratios must have their first start in the eternal spirit of God;* and by Him, finally kept to, and for all; just as regularity of action to the working of a sum is constantly due to the judgment of the actor, and not in the things acted on, except to keep to the first rule set. There is no possible rule to be set by matter as matter, for the velocity of changes chemico-electrical action shall work by, from first to last, except as this last rule is decided by Jehovah, for the root in His first. But, once set into His infinite perfection, as a covenant-keeping God, it is safe, and so, like all other immaterial properties, will appear to belong to the element innately, as if, and springing from them. But this proves all the order is mentally settled and kept up. The same aspect to a child would appear, at the velocity for changes, set by design, in a mere calculating machine; only, let it work by steam. So our setting a distance as equal to a measure of time, is perfectly dogmatic. Our measure being in time by a least value, or a second of our annotator, the chronomoter, to some measure over the earth we choose. Suppose a man desirous of regulating his time, and that without any use of the heavenly bodies, he could only first conceive all eternity future set into a finite ratio by his agents, part to part, made; still, except to his mechanical force, by hand, he could not find regulating agents, unless he used means, working to time at the wisdom of God. Even by these mechanics it is to his life forces thereby for the power to laws extant. What will the evolutionist do to start the required equal forces of time by, at the beginning, for the development of matter, and the parts coming together, which must be set into action on some ellipse? A second of time may as easily be conceived to be divided *ad infinitum*, as a unit of matter, to work it by. Thus, the ruling spirit must decide the times and seasons, as entirely of His paternal Fatherhood, to proportion, and carry its working on, all through the mass, keeping to it for ever for their forces of change. All we could say is, that the ultimate unit of time should be equal to the force in the ultimate unit of matter. But what is it, after all, for a start? For time is not tangible to sight or sense, any more than the ratio of attraction for atom to atom. Each must be worked directly, as given by the decision of a commanding Spirit, God over all. Fixed and carried on by Him, we have a rule at our use, to set our modes of household times and horologues by,—none otherwise. But without that, no two watchmakers would regulate their machines to the same velocities. It is the abstract question for infinite wisdom and power. But with this, we have a rule requiring,—let our system be merely mechanical, hydraulic or magnetical,—that all the operations should be conjoint and generative. Any intruding medium not perfectly equalised, as air is in rest, would be ruinous to correctness. So of light, measure to measure over it.

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* So, the watchmaker has the definite end to keep time by the heavenly motions, but while making his parts only uses his own will for their velocities toward a final balance, constant.

The spring for lightness must not be too strong or too weak; and all the wheels, &c., equally proportioned by direct connection, whether our spring be fluid or solid. It is all of regulative resistance to regulative power. So, therefore, the history of creation is consistent in regard to the universe. In the fourth day Moses makes all partakers, firmament and all, to regulate the earth's facial motion; her day and night. This, again, rules all her subjects under heat to her; while, as the signs on our clocks, being fixed to the eye, give the outside guide, so the motive stars, called fixed by their immense distances, do; and are our guides, final, for all visible motions on fixed measures to time operations, within all the workings from the mainspring,—itself, of a given power,—to the design like Light the regulator, as well as life agent all through. So, all our universe must be a conjointed chronometrical operator, for the times and seasons, at the working rule, by the first setting of God; and, as the law is set on gravitation to unite all toward the heaviest for the restraint, the time-liberty of all the parts must depend on the spring of light from God's bosom; and the reaction of ether in the first heavens, over it all, for the gradients, to be the consummation-decider, made.

Then, heat to cold, under different depths in matter, and for different constituents to melt as known, will all be accounted for, and be no longer an enigma in the Why and How.

This check to time, by a primary rule for the melting motive action of heat over cold, and all changes successive also, proves that dead weight is the given root to conquer, for carrying on the whole by, and attraction as before stated, only an additive property to increase it,—heat to react on it. That is, that to make a resister to his hand, first, at a rule of law in time itself—for a decider of all claims of the perfect is the first need to show skill in any creation, of the Will divine, or human — God conquers by light. But the resistance here to the hand of God required to be made to ratio on by another mass, even mechanically, as of impact,—as it does for birds by air, or ships by the ocean, rockets, &c.,—swallows the resister, with light, to find the fire means within, by its decomposition, to rise; and so the Mosaic institute is the true synopsis of science, for ether by a firmament-fitted. But, why the velocity of the ratio of changes should not be doubly quick or double slow? No inanimate root could decide at the first between 2 and 1. For time is essentially immaterial, and yet all are ruled to it as different persons cypher correctly in space.

BROODING, HATCHING, AND FEEDING.

Some mode for the development of the seeds of life into a fœtus, and from thence to its birth, and its changed means for future growth, must be admitted into any theory of generation for a new species. But this the late Professor Darwin and all his coadjutors have utterly passed by, as for the maintenance of their system was, no doubt, most convenient. But is that science for first parents?

Going, then, to Nature for her expression on this point *de facto et de jure*, we have, for the first testimony, the process by the egg as the most common; for a vegetable seed is but the egg of the species, subject as others are to take their forces for life successes under the awakening action of heat, and the new fluids by which it is generated, as they are supplied by the same primary generators over all, and coming anew to the substance laid, although that substance was generated at first by their assistance. These forces over all must also for ever continue the growth in health, or otherwise they act to decompose and reduce the seed, fœtus, or birth back to their primaries again in decomposition and separation, to the laws of the mother bed.

Now the Scripture gives us this thought for the mode required, not by simple fiat to "make,"—as in the case of other globes of heaven the working state is in full action for its settling amongst all factors,—but to bring a first standard globe into development from a nucleus (which by its character was as much entitled "the earth" before it was "formed" into a geometrically working spheroid as after): that God, having given the nucleus its especial magnetical line of resistance to the primal force of gravitational pressure, needed direct from Him to get any new organism over the all-dark and still state of the heaven, and its yolk,—brooded on or over it,—and then, for the result proposed,—from Himself, as the one immaterial, eternal Mind,—to the required fellowship of nature, said, "Let light be." "And light was." Now, the incorporation of vital heat as a mere immaterial principle in subtracting force (as we use that rule sometimes in the mind without the made figures) could no more be according to a covenant set on mass to mass, than ours would to the observation for the "good and true" to a child. Nor will the earlier calculations for a locomotive of the engineer work a locomotive's speed after it is set together. There must be real fuel.

Hence, as the fluid nucleus is held to us, as alone within a medium, its components must be decimally denser than those of the medium, which last, at heat over it, and all, must receive the generative fluid newly made, and by it be brought to either harden, boil, or burst by the circular action of this brooding principle, as the earth's heat condenses the hen's heat all round the egg. Again, all eggs have a set of pores in the shell to admit this flow. Let the watcher only cover the egg with paint, gutta-percha, or other plaster to stop them up, and he will certainly get no chick, as before said.

So, circulating fitness at touch is secured for before the heat is applied, by nature. In all seeds secured by a shell or skin of thickness, the heat has to burst that agent of preservation in state first. Then the germinating principle for the plant wanted, by a chemical agency received, begins, as the soil to find it is fit to light, air, water, and ether, to develop growth,—the seed being also exactly fitted first in every chemical ingredient.

Now, hens and all classes of birds, in domestication or solitude, may lay eggs that shall never hatch. This point of law, with the fact respecting the destruction of fructifying connection in the male to carry on the species, has been very carelessly, or, perhaps, I may say carefully, set aside by the neologian naturalists. Canaries often lay such eggs.

What difference, then, have we in the fruitful egg? This:—the impregnation from the male gives the lead by remaining in each egg, as that around which that body has first gathered,—as it ever remains in general law an associate with the rest,—or it could not so gather the parts from the hen's system of life. The difference in the degrees and chemical condition of the egg depend on it, and the exactly suited state of the female also; still, for the hatching, this germ from the male remains to be the true conductor for the species. Without this difference right through both sexes, abortion, not even as a dead form of a future generation like a male, remains. All stops except to rot. Now, how comes this seed from the male to so exist and be equal to carry the character in the germs? Thus:—First, at its own make it was derived from the primaries of the earth's soil, to fit the food there vegetating, and made in like principles, at the words, Let the "Earth bring forth,"—"The waters," &c., and proposes to show the covenant-keeping rule God has set Himself for succession, as far as offspring dependent thereon claimed. Then, "And God made," is written to show that from the earth's soils, subject at first to changes only according to the rule in the earth's part to part for her own at first necessary but sole subsistence, these agents were now set so as to give the male the power on his elliptical angle, the chemical variations belonging to the primaries to work on a different magnetical "chord" for the resources in change; yet, under pressure by natural gravity over it also, so that, to the square of the circle by air or ether, the male should be secure to deposit in vessels of his own loins the true emanation of his own character in life-blood, as the seed for a female womb.

Now, physicists tell us that up to man, and in the changes of that fœtus, the first states are for the egg, serpent, fish, bird, mammal, man. Hence, this itself proves his *sui generis* state, but attained in dependence on the inflow of the additions settled in certain soils, which, by the elliptical character of the globe, become equal to sustain his heavenward sight by an axis to its degree, as above those more natural and so more simple and ancient one of the serpent or the baboon, for one leaning backward for the axis to sight.*

When the process of gestation to its genera and degree has developed the birth, circular heat, saved from brooding, boiling, or backing the nucleus only, by this magnetical lead inset,—then, in all cases, the line for the future support has to be altered and yet be led by the line the male gave it in the as carefully prepared womb (the first heaven or the last womb made for beasts or man) the body and limbs could be alone developed; and the fixed variation for cooling to heating exist through, so that the mouth system laid in especially altered the first effects, and remains for the support of the "form" by the line on one surface through the bowels. So God could, when He saw the light was good,—that is, did its work,—"divide the day from the night," and support the body in its work by light as a stream.

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* This fact of the lean backward from 90° on the perpendicular cuts off all possibility for the generation by natural reaction processes of man.

THE EARTH'S GESTATION "SEEN GOOD" BY LIGHT GOOD.

We have dealt with the earth's nucleus, which, like the egg for a chick, required to be set on a magnetically practical thesis, so as to develop, at its excitation into action, the angle of the axis of magnetic order, to that of reaction by weight to weight, simple, over it. We need now a moment's consideration respecting its development for this change.

When it is said God "brooded" over the waters in His Spirit, and then said, "Let light be," the action is exactly like that which further assists the object by the make of the egg in the denser yolk and lighter white,—as earth's nucleus represented the one, and the upper ether the other.

Hence the idea of the Spirit of Jehovah brooding over the whole is in accordance with law, as He is the immaterial Creator,—a Spirit over all; and the heaven as well as the earth required to be set to work by the gestating force of the new substances setting in to awaken heat and feed the whole.

Now, this act of surrounding all with His Spirit to develop the light therefrom is of the same mode as when a person is fitted for resuscitation after drowning. It is circular to the gift. The texture is unhurt—the chemical state, that is, fit for life; but the thread of action requires to be restored, not through the mouth, but by circular action of friction, and applied warmth over all. Then the body gets awakened again in its old first threads that gave life with that form in the womb. By the organical order, both require to exist for the threads of life; so life starts by latent principles of law provided.

THE EARTH'S ROTATION.

Gestation being accomplished, by the right state, to a fraction for health, for the time and purpose in the object, the hour of birth is come to feed by the mouth; which, by the required elliptical force, magnetical, in construction of the changes, has given that mouth and its reactionary condition, the anus, with the full, exact differences of the higher and lower hemispheres; and this for a rotating, free globe is of the most simple, possible laying for the ruling and form-developing magnetic circle,—although the axis of rotation in each case of difference requires the Designer to exactly set these chemico-electrical sympathies to secure it throughout all the body for the axial angle. So, this having been fully attended to, God breaks the balance of a required settled state of equality in the two forces, magnetical and natural, for the state of action whole to whole,—as a flywheel is set at work from its standard make in rest,—by giving the line of preponderance to the new power, light, on that line within the body, on one side so settled for future lift. And this, being required in the associated lines for gestation and rotation of the first globe, must so continue on the same for ever, to keep all up. Hence we see at once, as of true science, that no second globe could get its form as the first did. Its demands, in the line of light, ruin the hope for the circular gestation of any other. There can be but one universal retort, excluding all other forces that injure.

THE SECOND HEAVEN, OR FIRMAMENT OF AIR.

The double application of a title should, when in the same synopsis, assist to see a likeness in the two bodies so called.

So of our air, it is called a "heaven" and a "firmament," like that spoken of as made to set the earth in of the first day. "Why" is both simple as to its need, use, and the fact that, as the second raised was by its greater weight to be a divider of the waters or fluid force of the first heaven out of human reach to feeling and direct experiment (both being alike invisible to man), that the whole system *sui generis* should be seen put at work on consistent principles of a uniting set of principles of law, now called properties innate to all.

Now, as the body was needed to be a constant accession as a follower of the earth's course through the ether, its mass must be such that it became an especial attachment by the prime rule, attraction of mass to mass, supported truly, as the mind in action of its Creator, for full impact.

Then, as it was to be ruled also by the two previous powers, Light and Ether, as well as the earth, its development could not be by natural generation, unless the force and state of light was equal to raise it as a generated raising offset of all the earth's corporate body. So it was like the engineer getting up his full steam-power into double action by using the material of the body, to become engrafted into it with heat to water. But this *he* cannot command: it would be life.

Now, as this new state of light required was of a superior force to that needed only for the rotation of day and night first set on, it follows that the quantity, as in our locomotives, must be at the hand of the user.

Once given, however, a separation double takes place throughout the earth's body. For there are two antagonistic sets of magnetical ratios therein—the one sympathetic, the other antipathetic to light and motion for the balances of time. Hence there will arise, at the graduated rate for a chemical development on the root, the not being over-forced in the time allowed; which is governed by the first infant state of chemical cohesion the globe it is raised of and from will allow, without danger to bursting. The chemist can understand this. Dr. Gale's safety for powder illustrates this as a slowing purpose by the mixtures.

Hence it will take much time; be low in radiative forces at first; be compounded of two different gases *sui generis;* and depend for support against the use in decomposition of all bodies, vegetable or animal, on being in constant support of quantity by the same sufficient condition of light, raising it as convenient; and be subject to follow the vertical vertices of light and ether as the mass attraction, light, awakens by the earth's draft, for the swallow by all the upper status to its depths in the ethereal medium, &c., &c. So it will find its way, as of a breath raised inspiringly and expiringly from all the body, to give sweetness and power through all the mother mass again in return, and keep itself sweet in the pure and good.

GASES, EARTHS, METALS, AND CRYSTALS.

So far as human experiment has made attainment in science, all these are known to be subject to exchanges of state as factors, to decimal integrated rules, running into each other's columns of nature's ledger right through the earth's bowels and melting at light. Hence, however refined the gases may become to escapement, or however varied into geometrical distinctions the forms of the crystals, they all submit to the law for being a mass, or matter made. Hence, the weight comparative for rise and fall in pressures of distinction must be at work to affect any whole body, at the conditions of heat, and chemistry at work entire, therein. This still goes on as facts prove, but at meantime degrees. But the most efficient members, the gases, as far as known motive forces are concerned, are chief, and are all subject to be attained by certain varieties of chemical agents, either effervescent by direct mixture, or by sudden contact with light as flame, or even the spark, but in different degrees for all. Invisible as they are, their expansive force is tremendous; and the *modus operandi* in every respect agrees with the theory of sudden rights to transfiguration from either solids or denser globules, fluid, into a host of minor ones; but at the rule of regular claims to the power attainable, in a geometrical mass-right, as of a sphere, subject to have that mass subdivided into lesser spheres, so that the space to be found is required to be greater on rules by law. Now, it is a well-known fact, that this tremendous agency may be so fixed for a current of power to be directed straight or circularly, exactly as the constituents for quickest development are laid for it. Also, when they are at work for a time, or constancy, either any superior line will rotate the holder on its axis, or their equalised power tend to melt down from any motion otherwise given,—the boil. How, then, as by known facts all our mines and caverns show that this is at work within the earth, will theorists, who claim for the globe a mere gravitational power to rotate and revolve by this sole impetus of gravitation (which leads directly to $A^3 + S^3 + M^3$, &c., &c. to one point) account for it, when forces must be acting on the motion, rotative to aid, at least, or tend to dissolve the frame, and yet be nothing. Then, while the earths appear harmless to the non-scientific eye for this, the geographer knows that, so far from that, with all their metallic bases, they are sinking in great quantities along the coasts and river deltas into that terrible solvent salt water, in connection with light and heat, the associates to rapid decomposition by earth's gastric juices.* Again, as to the metals, although they are so solidly fixed in veins, held still by overwhelming masses above, yet, through them, both affecting their state and its own by them, streams of water are for ever flowing; and by electrically chemical links, their great force in that power is now known to be conductors to the different parts of the body, by which all these agents are current in universal forces for gaseous development with the solid land, from its depositions into the ocean-bed, for further rise or sinkage to the earth's line of main attraction. Again, although the metallic crystals, those underground flowers of God's hand, which the liberality of most proprietors and managers of mines allow the miners to secure for our museums and private collections, and which of the more valuable class are sometimes mined for, as a direct agency of profit,—they, by their very fixedness of condition prove how perfectly the electro-magnetic property is a full associate with all the universal movement of the earth's circulation to secure the required ratio of limbs. Crystals found on aerolites, that have fallen, have shown the same characters for the action of weight by measure, to order throughout. In our boilers used for pumping out mines they are newly and constantly found, and our chemists' windows, with the ladies' alum baskets, prove the same thing.

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* If here the reader remembers that these forces are forced in by columns of ether to the earth's bottom, as above the sun, it will better, in likeness to a pot, be apprehended.

Generative law, then, is one, universal and unique, to rule, as Moses taught must belong to the universe, by its historical development. The geological upraisings of masses proves how deeply they were made.* The solids of fertility are constantly wasting, or sliding down in glaciers from our mountain sides and tops. Yet, the action of the waters and gases, in and of air, are at constant action to keep up the ratio of fertility in land. The current constancy as described by Solomon, the greatest naturalist, and scientist, general, of the ages, still goes on to whirl the earth round. Now, as the miner has to fix his explosive in subjection to earlier forces to produce the result required under gravitational rule, the pyrotechnic the same for his circles, the chemist for his crystals of chromatic beauty for his show glass, and the engineer and electrician between due orders, for propulsion by repulsion; so, it follows; the whole vast mass of such grand, and yet refined forces as God still works over the ingenious hand of man, must have been exactly placed, so that the earth's rotation, and that of any other heavenly body, revolves by the exactitude of the make and setting at first proposed. And by all experiment observed or attained, the working force, not so set as to make in action its equivalent restorations by reaction of solids and their due forms, places, and rights, must tend to reduce solids and fluids, into degrees of mere muck, gases, waters, and metallic, fluid-rolling volumes, all to their due level in gravity on the centre, until all the universe become under the force of light (supported in supply for ever), one ruin entire,—a sheer chaos indeed; from which, neither a true nucleus for the earth, or other organism by one as its seed generated, or any thing besides from the hand of a wise, omnipotent Creator, had the least possible existence or likeness for Good. All the changes, minute, or immense and rapid, by either natural or artificial means, then, tend to prove that point. I initiated for the reading of savants, —a lecture in Pitman's periodical, over twenty years ago, bearing witness to the Mosaic truthfulness,—that universal change, in earth and in the heavens, did, has, and does, depend on the fulfilment for exactitude to the covenant in the words "Let light be," and globes being organisms.

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* The geologists professed to find out great facts by their study; but where was the intelligent one to show, or even notice, that the crystallisation first, and of final upheaval of granite proves the force of magnetising, so that light must reach the centre.

The demonstrations for this by astronomy will place it above doubt ere we conclude the work. But if death is, as recent lectures by an astronomer have taught, in the whole pot by law, primal—*i.e.*, over globes and all—whence, by that law, came so much time of past life, as geologists admit the earth had, above mere chaos at once, and at all, to remain a while?

LAND AND SEA.

THIS, in the revelation, is made, justly, a very important part of the synopsis to science. It is the rise of masses heavier than others above their due places, normal, of weight to weight, and to remain.

In the arrival of new constant forces of heat as we see in the boil of a pot with other masses than the water, the ability to resist the radiation of the rising, circling cause, heat, by the heavier parts mutually attracting each other and cohering, is explained without further design.

Hence, in these previous days, the new matter coming in to keep up centrifugal action, must have added to the expanse of the accumulation as muds at par, or weights to rise or fall. But no possible cause could be shown for their sufficient coherency at the normal supply of exterior masses in power, by that support being only to the mass-draft needed to keep up constant rotation only.

Now, the heat so kept up, to get a more distinct rise into open air, and so a higher cooling expansion to allow of coherency not liable to equal reaction for sinkage again, must be in all cases of experiment higher than the draft allows, on the root of equal values in all proportion, abstract, as is the case in arithmetic. So, for this work the same. For this, no matter how much is added to the multiplier, there must be a leaving the ratios of mere terms to terms in gravitation, and a designed axial angle to give to one part the limit settlements; and in addition to this, by that axial angle, an overplus to the quantity requisite for the mere diurnal motion before the coming stream, causing day and night. That ratio, natural, will be only of the weight to weight power on the axis at the force of attraction; and so, to get up masses to extend so far into air that they lose heat, at a remission thereof again, and must cause more condensing power by the force of magnetical chemistry introduced into those mucks by the same advantage magnetism got the angle by. Hence, the means to do this must be above par, and be subject at command, exactly as in the foundry it must to get the solid limbs of the locomotive,—that is, intermittent to the calculations for the value as well as the quantity, at the use of the able designer, as to what degree of heat the operation would allow without its being so high as to scatter the materials from the association required at the magnetical sufficiency.

This is exactly the same in theory as the facts the geologists allow respecting the earth's irruptive development of the plutonic upheaval, and the cooling action to get the solid axis and the "dry," instead of a mere axis to the angle of design of rolling muds and fluids by its root for preferences in forms living. They admit large stages of time existed, when changes by floating settlements from the previous ones of vast volcanic action took place for long rests.

Here, therefore, the Darwinian theory at once falls to the ground. For the calculations must be exact, both for more, as well as a return to the required rotation supply to a fraction: to exactly settle the mass all through, to be neither too magnetically as well as gravitationally susceptible or antagonistically rejective of action to reaction in health throughout. For this settlement was to be one in preparation, at last, for that of exact times diurnal and revolutionary, standard to all made of especiality.

This could not exist at all without the exact angle, between the magnetical conduction of chemical change going on, and that of gravitation from the line of a single superior curve through, and the reaction to radiation all over the surface by the perpendicular of gravitation going on.

As the great fact of any value at natural gravitation by draft-powers only, is admitted by geologists, we need not add more on this subject.

Although the gentlemen of the neologic school are not fast to see their point of difficulty, they cannot now deny their own deductions from the stratas of the earth deposited.

If this right and only means to get up the solid land to fix itself for the use of the human foot, be initiated in its proper place, that is, all such a key to law, science, and fact demanded,—then like every other stage it went on, up to the time for rest the human foot demanded, and found that the law initiated is to be held to be at the true balances in the Divine hand, as certain.

Then the hydraulic pressure-power of the sea weighs the mass of the land upward, and to a higher demand, the greater space by that rule.

THE CARBONIFEROUS FLORA AND ITS SUCCESSIONS.

LAND and sea being a requisition for distinct union, and yet, separation of places (or the "Dry" as the synopsis, revealed, more particularly for scientific expression called the land); and, for that division, a new degree of light being demanded; which, to keep it up,—like the earth's complete form, and air developed,—required to be supported over the continuation of the resistance for rest in collapse, by steady circulation in full powers,—this next operation does not allow the change in time to be of an "Evening and Morning Day" in full, for it alone. For if the earth had a given, supporting efficiency in the light made to keep the land and sea in separation, it did not need other values than only to allow of equal rotations in the arithmetical action for the same limbs. For decimal integers themselves cannot carry more force, except as newly set for factors, than as in terms to terms. So, the force for a condition in our state, factoral, will be the same in the exchange into many smaller factors from the older series,—the integral roots ruling the whole, and not allowing of any false fractions at the pure and good.* So, as the earth's solid land was raised, the flora could be made; and in the root for seeding ratios from the full impression over the earth, to be continued by each "after its sort." The fact of throwing the decimal order of the earth's body into a unique ellipse, as all calculators for a table of numbers follow, is, that excess of the magnetical action for the axis, elliptically current, shall give an overplus to set in at the one end, for that needed in the reactions of the other. This magnetism can carry in nature as real. Hence, the earth now made by her full table of numbers, and on spherical ratios in perfect variations of the ellipsoid, provided—in the settlement of all her soils—magnetical ratios of distinctions laid to the gift in the climate over her, and also rising from below by the earth's bodily heats, for a system unique,—a new division dependent. It follows, that to the amount of the attainment from the nucleus state, the earth had been the growing receiver of her food, light,—the engrafter of these magnetical forces in action to reaction; so the early soils would be equal to provide the Creator with the means in variety for an infant soft flora, as of the same period in the force of light to darkness. So, the fiat, at this rule, laid by Himself as the covenant to His hand, is "Let the earth bring forth grass," &c., while the demand still on Himself to be the engineer to compose the agents from the spreading action of the force that set them there, and still work to spread their circulating action further; there is added this, "and the earth brought forth," &c. Now, as each plant is to be connected, notwithstanding its own axis of magnetical saps of distinctions, at His make from others, with the earth's own body; and, so, was not free to rotation and volition from place to place; there is not said here, as in the further on making and setting of other globes and animal free-life, "and God created," with the "Let there be." The synoptical accuracy is manifest, without in the least altering the rule common to all the uses of integers, decimal, for a medium in primary properties over all; that the change for a new free factor can never be taken at nature's lead, as at the off-set directions only of the older settlements. But they must be differently set. In this fact has been all the errors of the neological supporters of the false philosophy designated, now, Darwinian. The flora was as hair to the head or feathers to the bird, only various at make.

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* For instance: If the coinage national had new minor and major coins given to work with the older ones, the revolutions as well as rotations in the ledger must go on by decimal forces as before to the previous factors, ratios, and elements.

When once the flora of the earth's dry land and ocean bed was developed, the synopsis simply leaves the matter, until the speciality for man's use in Eden appears: as the initiation is held sufficient to allow, or rather necessarily demands, that the same species suitable for the infant, growing state of the earth, could not but decline under the constantly increasing forces, magnetically hotter; and suffer, coming from a sun, to meet the new demands on progress by light,—and its engrafting through time into all the soils. To go more into this would be outside the synoptically scientific character. It is all implied therein efficiently, except to wilful unbelief or ignorance. But, as we now approach to the astronomical era, we may make this remark: That if the association with another working globe is to be the next state, as that one which shall take our earth's place in the main centre of the universe, by its mass; and, so, all the new light created to feed all must pass through his body, and hence, he must be made of like substances, subject to the same rules of circulating properties,—then, as he will have vast masses of silicates, metals, and gases, and so to radiate them from all his body under ethereal pressure, in fluid gases developed from his added claim for, and focus decimal in light universal, by the union, to be able to so work again on others properly set to sympathetic chemistry; then, at the first violent action of this associate, the earth will recoil within and without, and all the action of the metallic changes and silicates laid tend to destroy much of the older beds of the earth by irruptions to replace over their claims, by the central states, the new surface ones, and the first flora will be unfit for his operations; while his gases, so silicated, must tend to fossilise them on burial beds of the disrupted layers; while the new flora, needed, must contain more of them than before, to reduce their readiness to burn, or for growths. This is a well-known palæontological fact, and is fully admitted by all geological writers; and, although fossilisation can go on, the value for fuel decreases at the law initiated for means to progress, while axial angles of resistance to the melting pot become of more fixed values toward the upright and solider timber, &c. At this state, the carbons of the earth are first known to have the fuller advantage to grow the flora from the states in the beds. Hence, if a vast efflux of these fluids took place at the connection of the sun; then, these thrown into beds of great retort-pressures at work, by the vast masses uplifting, might tend, yea, must, to promote solidified crystals of the pure carbons below, unmixed with other features. Hence diamonds could only belong to the development of the earth's honeymoon, by her groom the sun, but by successive irruptions to be thrown to the surface beds.

THE BIRTH OF NUMBERS;

OR,

The Radex of Action to Reaction, Square, Proved to be by Heat to Cold, Decimal.

Whatever mathematicians may have thought about this point hitherto does not affect me. The unchanging results by time and arithmetic to harmonise it by Kepler's three laws has justified to me, as certainty, that it may be found.

Our previous studies on natural properties confirm this; and only by Divine design to get factors to numbers, or organisms.

We have to find the rule for all integers automatically at work in nature; or, by our theoretic use; and for the decimal fractions.

This will be demanded of me both for the roots of geometrical rights, and, as by a future paper directly, of arithmetic. To do this will absolutely prove the Mosaic initiation of Physics, as of the will of Jehovah to work on the admitted abstract roots of weight by measure,—the "good" abstract.

Further, some persons, one especially, and not a bad geometer and a schoolmaster, whom I met with, had the idea that another radex of numbers might be invented—integral. But this is to be here shown impossible, as on an attempt he admitted.

The point now before us is the one I succeeded in on a rainy morning at Truro, before spoken of.

Moses might, no doubt, be divinely overruled for his biography, to have the older records preserved in the Egyptian archives of revelations made to the antediluvians, and preserved by the piety of Noah; who would be sure to desire to keep the past history before the Flood for the knowledge of his posterity. The building of Babel for a collegiate city and tower, as to the means of salvation, or "to reach to heaven," the discoveries made in the Great Pyramids, and the reference by Jude about the prophecies of Enoch, all tend to that idea.

But one thing is perfectly certain, that given when they might, the original records of the history for the universe, so exactly agreeing with the discoveries of modern science and research, must have first come from a kind, Divine, direct revelation of God.

This is the great point, to prove which the labours of this work were commenced.

No man could so think, then, of embodying the history into six parts to find its rest, or equilibrium standard between natural gravitation, to react on the attained-in-time state of magnetical overforce.

What heaps of divisions would our geologist have divided the grander eras into.

We will now proceed to our study, based on the Mosaic history for its key of procedure.

Diagram No. 3.—Let AB be the diameter of a square NN, for the assumed solid cube standard in geometry. The face is the plane thereto, standard also.

To bring this figure, the most obtuse possible for circulating operations, it requires to be reduced to a circle, and, for our purpose, we have the proportionate circle to the same radius. This we draw in the circle AEBD. Now, this to be effected as closely as possible, will only do it by melting a mass from the centre, to so circulate and radiate therefrom. Hence, natural forces at any time to make a globe must have been so secured to get at work. Let the exterior supply to secure rotation come from whence it may, the pure form is not possible, as of continued life in matter; as the line of receipt will be first the equinoctial and equator in one line, to any direct one of action by draft in simple weight, for weight.

The line of receipt must also, as it runs through to the main line of the mass-settlement first given, tend to reduce the variation on the hemispheres into equality, as the friction, by the heaviest parts, will increase the reducing agent equally—that is the heat.

Heat, therefore, or the subtractive principle against attraction and cohesion, as it is the refiner of parts to keep up circulation, must cause those most refined parts to rise at the pressure of the colder and heavier ones. Hence, circulation by natural gravity to heat, or weight to weight only, to work the currents exchange, must tend to carry the line through from front to back, and so produce a double current from that back to rush round over the two hemispheres in divisions, and then re-enter at the vertical vortex of the Power, new, E. The mouth, old and new. A double ellipse resulting, each exact to the other.

Thus, using the point H for that of exterior supply, the two currents will be E to D, first, backing each other by the main line of resistant divisional heat; and then DAE and DBE again, over the surfaces by the propulsive force remaining, aided by the attraction of the new mass, coming from E. This, from the surface, as the most free, will follow suit, through to ED. But by this process, and those powers only, we have no means to force the sphere of AEBD into one, only, main, united rotation as a whole at all. It is simply an example of the standing boil. Also, the opposite poles to ED, in A and B, will not be the two of chief cold. But that is at the anus point D, boiling over at last.

Now, by all experiments, and, for instance, if a goose be roasting before a fire, if we can secure rotation to the whole body, the heat being in the meantime of point-successions entering toward the centre, where it is less subject to be returned than on the surfaces,—because the resistance to radiation intensifies in the proportion of the overlying mass,—while the surface and nearer parts by occasional removal from the line of heat are loosing readily at those times;—so heat must increase to be highest at the centre, by rotation, not otherwise.

Hence, any body subjected to actual rotation before a heat supply must accumulate the greatest heat in the centre, by its forces there of over all conservation,—the supply being enough to reach from front to back, still, as the test of enough, or to overcome the mass resistance.

Thus, the earth must be hottest in her centre, and the same of all rotating globes, by their fount of supply, if enough to rotate her whole body at all.

Now, as resistance, physical or moral, causes the friction to get up the heat, if from H the new mass is exactly equal to the weight AEBD, the friction will be true to the gravitational standard, and so the melting force for circulation is the same. If a heavier or other mass surround AEBD, the new mass must be got up to that standard; and so on, as the universe to be moved increases to make the demand on the Divine Stoker.

Hence, the gravitational order *a priori* in law, for measure by measure, under weights, is fully supported; as if the weights in AEBD, be not greatest in the centre C, geometrically, the body must turn toward H, so that the main line of gravity, through, is directed toward it, and the boil follows as before.

By this study over our diagram we verify our earlier conclusions, that unless a means be found to carry the line of heat toward the centre, on a gradient from that of simple pressures, nothing but the boil could follow at the conception of the natural selectionist's ideas. Also, as the magnetical sympathies, set within to be the leading ones for the line equinoctial, against that straight for the equatorial, must be equal only in their full power to the gravitational, that its reaction, after the centre is found, is true to keep up a constant ellipse of action to reaction in equality,—so it is clear,—that when gestation over the umbilical cord has reduced the line of the seed to its developed fœtus for birth, the whole natural and magnetical power of this mass from H will act on the whole from AEBD, by the main line of both settlements, so attained; and, hence, notwithstanding the interior state of the magnetical sympathies, to suit a working order of one superior, entire line for ellipse, all will be, by the balances of law, more settled for than ever, unless the Maker decide for the line of superiority, by dividing, at His power direct, the day from the night, or a first turn, forced.

Then, the touch of His finger directing the line for that of the next order, at once, gives the magnetical sympathies their full sources of superior march.

The same natural law of dependence was taught by Moses for the turn in at the inflation of the Designer of the body over it, when Jehovah is said to have breathed into the nostrils of Adam "the breath of lives." Nature in the gasp at birth of the infant shows the same; and I knew a medical man who had so to inflate an infant at birth, when all went well at last. Decomposition by light otherwise.

But we need now proceed with our more immediate object the diagram was given for, and to keep to the practical ratio for ED, the equatorial line by AB for the polar.

The line HZA shows us that a sufficient distance must exist for the size of the sphere to be illuminated and fully irradiated, to rule within, and that by supply in the resources material.

For from E to A, as the distance now is, the surface of AEBD between the line HZA and HO is not fairly supplied at the ratio of the axis, or radius, AB, in demand. The distance for H must increase. So, this point must be settled between supply and demand, or form to form as well as mass to mass, by exact design against gravitational tendencies to collapse together, and, so, must depend on the exact magnetical setting all through the masses of every atom, on the required ecliptic angle. And solar light must not act like that of the glass blower on ACBD to give form. To find the radex of numbers, we proceed on the first geometrical and numerative root of the square or halves, 1 by 2. As from H to E the diameter AB already divides the circle AEBD; so, if AEBD be still at equalised attraction before H,—A and B are equal as to the point in degrees of cold. But we want a depth ratio on the line AB, to find the reactions of numbers: and this division gives us none. It is all surfaceward. So we divide these equal hemispheres on the line of receipt ED again, by the two lines parallel to AB,—OO and OO. By the lines OO, OO parallel to DE, to be now drawn, we get the depth V, V, from A and B, as those of the polar pressure secured for cold, or radiative power of heat rising in loss surfaceward.

These depths, AV and BV, are now proportional, to test their value on AC and BC; but do not give us a record direct from 1 by 2, for a reaction primary to numbers between heat to cold. Yet, in a future object, they will be found of great interest in another diagram. They are fourteenths of AB, and so sevenths to AC and BC, and are the interval ones we find of these cold ratios. So, we again subdivide the remaining sections into equal values of ED, and draw the third bisecting lines through, parallel to AB, the cold axis. These are FF, FF and LL, LL. By these we now test our pressures along AB, under the lines FF and LL, parallel to ED. These give us a least depth over the centre C, as AR, equalled at B for the shallowest; and AX and BX the greatest. These various depths on AB are proportional to the line of receipt for any globe. So, we test our present results of thirds in divisions, to action by reaction, cold to heat. By the first result, under circles or globules, as floating waters to law geometrical, we have ED divided into two major circles, EC, DC diameters; and AB into three, by XA radius. Thus, we have one divided into two equatorially in receipts, subject to reaction for cold by thirds; or the first integral means of reactions from the unit, for the root of the square to the cube solid, proportional also in its circle of the same radius. And AB is by heat, in loss by pressures, trisected to give 1 by 2 for three reacting. Next, we have the second set of divisions along DE, by the divisions in the lines OO, OO each side of C, refining these first circles two by three into four by six; and by the last or third bisective act of ED, we get the reactionary pressure, cold condensing power giving us these again divided by two, so providing the rate of eight to twelve through;—the first royal member of Scripture law, at rule.

Hence, as matter acts both mechanically at pressure, and chemically to magnetical lines of association at touch, we have from E points through to D of utter loss, 1, 2, 3, 4, 5, 6, 7, 8, 9, for front to back, as the primary boil order, which by constant supply runs out over D, towards either pole, A and B alike, by O, the cypher for the gravitational expansive arc, over matter out to space; and hence the existence of the cypher as an integer depends on its being the evidence for nature being made of real matter for eternal growth, whether by a sphere alone, or by a universal firmanent, to regulate it and all. But directly the reactions are arranged by magnetical sympathies set eccentrically to the antipathies at a true balance through the whole body, so that a working ecliptic to the rise and fall in ether secured the intensities of heat from C, become so balanced and doubled from A and B to C, that the globules of dissolution by heat become again refined, and so, for the heat power, the current is both from E and D towards C, made decimal in its accumulative advantages, 1, 2, 3, 4, 5, 6, 7, 8, 9, on points of interior exchange for both hemispheres in their turn; and the main pressure becomes A towards C, and B towards C, for the extremes of cold, the solidifying the solid axis of rotation, and the more elliptical flow of the surface currents; while the line of point divisions for cold, at a loss of heat by pressures from A and B over the centre, becomes not 1, 2, 3, 4, 5, 6, 7, as marked through, but under all circumstances it must be ever at the standing rate of 1, 2, 3, 4, 5, 6, 7, for the balance of the reactions over C, the centre, across ED, from centre to surface, and to return across ED from front to back, and to return to sevenths under tenths integral, at law or gravitationally. So sevenths must have the root over all reactions, by heat to cold on time, form, and measures, as we actually have it worked, however unconsciously to savants, for a table of mere numbers to numbers, and the tables of the canon of spherical trigonometry at 45°. For the awaking action of heat along ED must proportion the pressures over C of the two hemispheres, DAE, DBE, by any setting for the ellipsoid at integral law final.

These realisations by mass to mass, for numbers, when thrown into the required practical ellipse at the magnetical make and setting, as for factors to factors of design, under the reactions of primary integers, must be submitted to and exactly balanced by the maker, to get up equal times under such powers; and, therefore, were so set from "the beginning."

To this I have, for the study of the fractions, bisected into eight equal parts, on some points also equidistant, the one circle seen by XB diameter, and D8 into equal divisions, as for minors to major forces. This, as the eight equal parts from D, to those from B, run by 2 into the next circle of these parts, shows us, that the commanding root for the reactions of heat and cold in power to claim for heat, on the equatorial line the breaking in or dissolving power, for separations and refinings, is at the full power of the square of numbers to numbers. The pressure power of reactionary cold by the hemispheres, DAE and DBE, — being the relapsingly, — greatest, — securing this superior force for heat along the equatorial line for the abstract; and so, for that of the designed equinoctial, by its reactions under rise and fall for supply and relief, in a relieving or condensing heaven, to the changes of the full forces of weight to weight thereby. Now, if the cypher out from D be not by new matter in growth, then, as dead heat only hardens finally, so nothing but continual baking could go on. So "Let light be" must be a covenant for food universal in matter, to keep up life for ages, as has been the case to raise bubbles.

Thus, we have demonstrated that the first state of matter should be of so many dead solid cubes, subject to density or crystals of darkness; or with the magnetical setting of proportions in them, resolved, by heat, into fluid globules of equal measures, but numeral ratios from the paternal unit in densities, and all other properties, as our integers are made to be carried on by; for if the solid crystal paternal is not allowed, but that vital warmth shall at once exist, then the globules or waters must have the same proposed working order over them, and rule as waters of the power for ever, by warmth from the parent.

And, thus, this first point for "a beginning" is demonstrated to be correct by the Mosaic accuracy in the history of creation, as according to theory and experiment is tested. In reducing this point we find the first roots for the reactions by a divisor in 7, for the square of the circle, at 1,000,000, yet to be further attested.

THE QUADRATURE OF THE CIRCLE.

Our last subject has securely found the roots between heat to cold, for this point, by automatical solids, on the rise and fall in gravitation, setting all between addition to subtraction.

We shall seek the demonstration by several processes, and in different papers.

First, to attend to that more especially geometrical, under Euclidean principles and powers. My success, let it be held what it may, was secured by cleaving to the Mosaic initiation of the Sabbatic number for my radius.

Our diagram, No. 4, is the one required through all the processes; but not in full for each.

The scale is set at once on decimals to 7 for radius, instead of the diameter, and for convenience in values of parts. By the line CA radius 70, draw the circle, and extend AC to get the diameter AB. Also, get the other axis, DE, as usual.

By CA radius, from E or D, draw the inscribed chords, six, which are known to divide the circle AEBD into six equal arcs; and are divided by DE into three to three of opposing hemispheres.

Through the centre C, draw straight lines which shall connect the opposite points of these chords and arcs, and which divide the interior of the circle into six equilateral and equiangular triangles, each having the same deficiency of the power, or mass required to fill up to the circle EBD, at surface. This inscribed figure is the hexagonal polygon by seven points of procedure, E, S, S, D, S, S, E.

Each triangle inscribed has the less power to the arc over it, of AEBD, by a graduated equal rise and fall from the point to the centre back to the other point in the chord and arc; and, hence, by a mean value must stand on the proofs, for a new water level or circle to AEBD, and by 3AV at each hemisphere over ED, equal together. Also, we see, by AV at one pole A, to radius, there is BV, its equal at B, for the rule by the diameter. Also, as the hexagonal polygon is of six radii in reach of power to equal AEBD, so the whole is of three diameters + the power of 2AV in demand, wanted by radius to the figure DSSESSE. For to each, by our equilateral, it is of six AV, to six triangles — equilateral, for the whole circle the same, by AB, on its pivot sweep.

Then, what is the full depth AV to AC, or 2AV, to AB the diameter?

We bisect AV, and draw a circle AV diameter; and with the same radius work down to C and B, and find to C are seven; to B, fourteen; and, hence, AV is a loss to the form of the polygonal hexagon,* which is of three diameters, on inscribed power, to AEBD, the circle, by radius AC, the measurer, — of a seventh to the hemisphere,—and for 2AV, or a seventh of the diameter, entire.

Hence, if we inscribe the polygonal hexagon of three diameters into a water level for the rise and fall of the chords into six arcs within AEBD, it being equal to that polygonal hexagon inscribed (say, for a dummy, the circle by CCC diameter between A and B), the change of form merely cannot alter the power on radius wanted to fill it up to ACBD, the circle maternal. But circle to circle must be as diameter $3\frac{1}{7}$ for the major AEBD, or the minor at the same test proportional to the other form DSSESSD the hexagon.

Again, by another process.

That the division of the circle is perfect, by six arcs to six chords of radius, is proved by the chords being parts of equilateral triangles, equal to the other sides as radii. So as each angle is of 60°, so the whole must be $60 \times 6 = 360$,—the horizontal circle.

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* For the evidence to the division of the circle into six arcs by six chords to radius, see proposition 15. "To inscribe an equilateral and equiangular hexagon to a circle by elements of geometry, see Bell on Simpson and Playfair."

Again, by another mode.

By CV radius from C the centre, which is of six proportions to seven of CA, we draw a circle. This is VVVV. Now this circle, although proportional to the older Euclidean mode by radius to radius on distances, is less in its "power" than the hexagonal polygon ESSDSSE, as no part of the circle VVVV reaches to the surface or powers of AEBD, while the hexagonal polygon does at six points.

Also, no part of the hexagonal polygon is less or within the power of the circle VVVV; but it falls thereon at six points of its surface on the mean ratio of a straight line by its centre at each point, which straight line is equal to radius CA. Hence, the mean value of its greater power to that of the six arcs of VVVV, and less than the six arcs of ACBD, give a directly-graduated scale for it, between the two of a due proportional to each by radius.

Then, as AV is the distance by AC, and 2AV is the distance for the power less of the circle VVVV on AB the diameter of ACBD, and the graduated ratios of a straight line to a curve are the same for the circles, so it must be for the difference in the proportional power of the hexagonal polygon for its degree more than the circle VVVV, or less than ACBD, at their own claims, greater or less.

And so the hexagonal polygon having of ACBD, the circle, three diameters of power, and AV the proportioning agent of loss, that being a seventh of radius and the same for a seventh of the diameter gives the fraction in $\times\ 3\frac{1}{7}$ for the greater of ACBD by 2AV.

The process, so far, has been on the root of all the revealed balance of power in nature by Moses—*i.e.*, by waters to waters, rising by gravitation, or falling to the hydrodynamical balance. Hence, if the hexagonal polygon had been a crystal of ice, and not subject to expansion by heat, but only to melt between two planes of glass, its less power on radius all round, within ACBD, could not be less than by the first figure, or more. Change of mere form could not alter the power on radius.

The exactitude of the sevenths will also be hereafter proved, by the canon of trigonometry.

We now proceed by our entire diagram, and without needing to even assume any change of forms.

All solid cubes are known to be proportional to their spheres of the same diameters; and the hexagonal polygon by its solid to both submissive, but through the sphere for draft.

The hexagonal plane is from a known crystal—of which I have specimens (No. 3 Weale's List, "Grammar of Mineralogy," by Dana). It has the solid cube further reduced from its eight points, by a set of equal reliefs, to leave eight equilateral and equiangular facets, with six squares, lying diagonally to the former ones lost.

Hence, it is a pure crystal of that significant Biblical ratio of interior birth generation of the womb, of fourteen facets; or complete to law in the vitals,—"Good."

Our proposition now assumes the importance of being for a divinely-ordered root in typical theology, taught by Nature in her entirety.

Proposition :—*To find the ruling organical ratio abstract* (for processions practical in growth by "Let light be," or coming new for ever), *under the three decimal valuers to measure by measure, the cube, the sphere, and the facet-carrier of the hexagonal polygon, by radius the same to each—for the working standard—ellipsis, or the cross, by the abstract.*

We proceed on the drawing already at use with the extensions.

The cube, by its four sides, Z, Z, Z, Z, allows of no rule for extensions to be guided at once; nor does the circle AEBD. Not so the hexagonal polygon of six equilateral triangles inscribed to the circle.

But on supposition of outside supply to break into all made by a line chosen, the equilateral sides, as radii, from C, of the hexagonal polygon, have a rule for a succession of eon reaches in time and power, by mass to mass, to rise for the right of a set of geometrical procession, to the lines of the solid cube.

At the points D and E, or the axis equatorial, given for fullest first receipt in draft on the new matter, they already reach to the surface of the cube. Thus, a rule is set for the equatorial line in pure geometry. But at all the other four terminal points, S, S, S, S, the extensions are open at demand by an ecliptical force at an angle.

Thus, for extensions in growth from the centre, the interior third figure, proceeding from the other two, commands the reaction under new side-developed pressures, line to line, to a rise for all.

Then assuming the line of one, say CS to CH, be adopted for this extension, we have a new radius for a new circle MMMM, and by its points, M,M,M,M, for lines parallel to AB and DE. This line, chosen to follow nature, should be northward and eastward, to rise first, upwardly.

This extends radius CA to CM.

The places for the parallels to AB, CD, now found, give our second square; and to the first we extend all the radii from C of the six equilateral triangles. The new square is JJJJ.

This process of rights in generative progress, we have continued to the sixth degree. But the first birth being of three figures, coalescing for law by AB diameter, the whole must be reckoned as of seven eons of time. Now, on solids, these extensions are clearly in demand on the gravitational cube, first, of the old to bear the new masses needed to the next eon, as the various properties for cohesion are equal, all through, to bear healthy heats and pressures; and so as not to tend toward the mere boil, if set in organical factors to others for other forms of procedure thereon by that root.

Then, on pure geometrical proportions abstract for the law. As AV is a seventh of CA, for AV + BV, a seventh of AB, the diameter of the circle ACBD, and its square proportional in ZZZZ, and their polygonal hexagonal figure proportional, so AM is for the square JJJJ, the circle MMMM, and the hexagonal figure by HH, HM around, a seventh also.

Also, as the other processions on to CU, for the extension of radius, must follow suit, so that TU, the last extension, rules at the seventh its three forms by CU,—then each of the six extensions of CA radius, being of sevenths to the new diameter for the circles, and the hexagonal figures and squares their proportionals also — it follows that circle to circle in the processions are at a fractional ratio in numbers, under sevenths, the Sabbatic number of Biblical change by rest to rest for their values greater or proportional to the hexagons of three diameters, and by all circles to others. We may surely say now *Id est demonstratum.*

But observe, this peculiarity by these seven perfected developments over a straight line, or from surface to centre, for a radius—our last diagram and paper on it showed was of 1 2 3 4 5 6 7 8 9, on any setting, for a true rotation, by the increase of heat toward the centre, for reactions to numbers in its force of retention, 7654321.

CA is 70, CU is, by scale, 150; or the Sabbatic attainment is into an eighth eon by a new root derivable from the first set, instead of—as our processes in tables would follow—1·000000, on to twelve decimals only, or double the radius under a unit for the rule still.

By this we have assurance, that nature arrived at the pure and good of processional Edenic peace, for her full birth until the hand of sin in man; and which Leviticus plainly points out it is lost by, to be only restored at the claim of the sinless One; and for a higher change in His divine right. As she now goes on, the tendency toward the volcanic boil increases, we know. Yet here we have this proof that her elements were equal to eternal novelty on the roots of first law in the "good" *of God's* hand only, and to the degree of her powers for generative successions in all her factors to find a place for them, even to man and child,—"Good;" if kept, or confided to God's care by man in humility.*

We can now settle our numbers to measures by the scale.

Radius, taken at 70, is CA from the centre. Diameter $AB = 140$. The square ZZZZ, $70 \times 8 = 560$ in circuit. Hexagonal polygon, $70 \times 6 = 420$.

Four interior squares of ZZZZ, by the axis AB, DE, in division, each $70 \times 4 = 280 \times 4 = 1120 \div 2 = 560 = ZZZZ$, in proof of the square of circuits found.

Then $AV = 10$ of CA 70, and CZ is $10 \times 10 = 100$. So, ZZ is 200 diagonally, thus giving the roots of our Tables by circles on AV, the minor diameter, by CA to AB, and ZZ.

CV is for its circle, as radius, $= 6\,AV$, or 60, diameter $120 \times 3\frac{1}{7} = 377\frac{1}{7}$.

In the figure, at the imputed one side, and one polar preference for the breaking in of the new mass, we have four diagonally laid parallelograms given. ADCZ, opposite at the other hemisphere ECZB, and ZCBE to DACZ. These forces, when ellipse is settled into action for an ellipsoid, but obedient, under the square and resolvent into a floating heaven, must play their due parts to conserve the units of all organisms, by the exact "make and setting" at design; or tend at injury for ruin to them, for the mere natural boil of the natural selectionists.

These are each $100 \times 2 = 200, + 70 \times 2 = 140$, or $= 340$ round, which is exactly 100 less than we shall get the circle ACBD. The interior inscribed parallelogram from the poles of the equator DC to those of AB is on each line equal to $CZ = 100$, or square DAEB 400. The depth major loss, by its lines to the surface of the circle AEBD, is by 2AV or by $KO = 20$ to the hemisphere. So it is to the diameter for the sphere 40. Hence the loss between the interior diagonally laid square of 400 is made up to the proportion of 440, and the circle by $3\frac{1}{7}$ is AB $140 \times 3\frac{1}{7} = 440$, a clear proof of our security.

Also, the loss by the greatest depth in the hexagonal polygon being 10 to the hemisphere and 20 to the diameter for the sphere, it is of $70 \times 6 = 420 + 20 = 440$ again. So the roots on all profits and losses are clearly set on sevenths of radius.

The loss by the line AD or AE being 2AV, the rise above the circle to Z being 3AV, and the first, one, or AV only, we have a true procession by proportions between the cube, the circle, and the hexagonal polygon of 1, 2, 3 forces integral to all reactions from the square by radius over the circle and its proportional square diagonally laid or across it, on the bowels, to the degree for any ecliptic angle designed. The rise over the circle by CZ being of 3AV or 30, and there being four such to the circuit, gives us the circles 440 + 120 = 560, which is the circuit of the square ZZZZ entire.

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* The tree of life was given that Adam might by eating it so use it in humility, to put himself on God to keep his eternal life for him, or not to trust for it in his own strength.

Now, the circle by CV radius, at six equal distances of tens from C, or at the usual rule of geometers for circles to circles by the squares of their diameters, gives us but one depth AV from that circle to the line AE of the internal square AEBD; and this chord AE exactly divides the ten AV of CZ into halves of five each side of it. So square to square shows the internal root to remain decimal at sheer integral values for even the boil on reactions; and circle to circle shows that the "power" is law, for the square works truly to the general rule of distance. This proves at once that AV is 10 to CA 70.

The whole diameter, found by processes of extension to U, is 150 × 2 = 300; or the attainment of the full triune force from sevenths, into the current by three in one over decimals, or the pure perfection at God's hand to rule all, in all results.

It will be hereafter considered a curious fact, that this so long held impossible discovery was to be found by a full action for a circle from the first problem of Euclid. Thus

To describe an equilateral and equiangular triangle upon a finite straight line.

For if the order of the generative labour had been continued to get the attached six triangles, one after the other, by the circles (and which represent the circles of an ethereal heaven to rule the birth), then, by a circle round the whole from the centre, what the first was wanting, *i.e.*, a mean by a seventh to nil each side, for equilibrium over radius—a seventh on radius of the chord to the arc, must remain the same, in its proportion for the whole, by any perpendicular, dividing by the angles of 30 degrees,—or, over all—three at a rule to divide the order for all decimals on the perpendicular, or pure upright of Law on Height to measure,—a pure theology in itself. For the line CA proves the equal mean ratios of the arcs to the dividing chords for an equal rise and fall at a mean rate for a new water level from chords to arcs of a circle within of three diameters equal to the hexagonal polygon, 30° × 12 = 360° as the final measure for all.

By our rule for heat to react and raise matter from the centre, as lightest to the pressure above, the bowels must give back their share of support to the loss by receipt both of light and the generating over all circles, or the heaven. I have drawn two which, by the boil, are carrying the ellipse at the perpendicular of natural selection to any mass accumulations. These circles find their centre at the surface of AEBD, as five above to a rest, and find the centre on action.

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* Also, evidently, if CZ become a radius for a new circle, it must fall into the action of CA; or become, like CA, a radius at 7AV instead of 10AV, proportionately, for work.

Also the cube of 300—the diameter attained by CU, distance in radius, is 27,000,000, for the proportional mass of the new circle to the square, or as 3^3 at decimal progress to be secured perfectly.

THE TEST BY SPHERICAL TRIGONOMETRY.

ARCHIMEDES is said to have landed his judgment for the square of the circle where we have found it—*i.e.*, for the circumference by diameter $\times 3\frac{1}{7}$.

In the effort to find it in A. Bell's Book, it is carried to 3·1415926. Whence, I suppose, the savants derived their 3·1416 for short.

But as all diagrammatic drafts may be held of insufficient proof by the sceptical, because of the very minute fraction wanted, we will also prove by the canon of trigonometry that our CA radius is 70 to the diagonal line of the square in 100 again.

Now, as all tables of numbers, on a decided root, can be only of approximates to numbers around the circle, we can only use them by so far finding the truth on that circle by the compensations of error they work into. But this fact, that all tables are known to be of entire degrees to small errors, subject to such compensations, approves the Biblical principle by the real meaning of "Let light be," as we have adopted it, New food from God for ever; as only so could the true and real be at work in nature at all, to get correct times to values.

Calculators of the tables always assume a force in projection for overflow at the end, compensated by the same measure in less at another.

Thus they actually give growths, but to a loss again. And they work by an ellipse in all tables, although at the lowest possible range for the due compensations of errors they can.

Their tidal wave starts actually as "nothing," in 1 log. 0·000000 with 2 log. 0·31030, on which latter the rotation of the spherical canon takes place.

This seals one point for a future subject—*i.e.*, that light consists of normal globular units of necessity; to so abide for ever in flood, new; and that the last reactor back for it is of the upper ethereal duals. These carry only the angle of rotation, or for the boil; or become the final integral valuers for others, at a greater angle, as fixed off the perpendicular for the double interior, back, for the reactions at design. Hence our use for the table of mere numbers at a value similar, for the real eons, work all the resources of spherics in nautical astronomy, the highest log. being 999995 to 1000000 standard. However, for these compensations of errors, between 1 and 2 and 5 to 10; no non-compensational error is even then supposed allowable, as it would lead through.

Then, for the benefit of those who do not know this necessity for a compensation of errors, we give a proof they exist in the best tables, by the rules of three direct.

2nd term, 13452 log., ...	4·1287869*
3rd term, 14523 log., ...	4·1610563
	8·2898432
1st term, 12345 log., ...	4·0914911
	4·1983521

The nearest log. is for 15789 by 4·1983546.

But 12345 : 13452 : : 14523 : 15825·03771.

Difference, 36 and a fraction.

We now proceed to get the compensations of the canon needed in our chief quest of the diagram.

For our purpose we shall use the triangle ZCE, at the upper right hand of the diagram for all.

In it the sides CE and ZE are equal to radius at 70. The angle at E is a right angle; these two sides being those of a square CAZE. The angles E and Z are of 45°, being each the half of a right angle. Off these values we have, by the tables, to allow of a force at work, subject to reactions.

CASE 1.

The angles and hypothenuse given, to find the base and the perpendicular.

Making the hypothenuse radius, CE will be the sine of the angle Z, and EZ the sine of the angle C.

To find the base:—

As radius	10·0000000
Is to hyp. CZ 10, log. . . .	1·0000000
So is sine of angle Z, 45° log. . .	9·8494850
	10·8494850
1st term	10·0000000
To the base CE. . . .	0·8494850

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* Chambers's Tables, New Edition, 1867.

To find the perpendicular:—

As radius .	10·0000000
Is to hyp. CZ 10, log.	1·0000000
So is sine of angle C, 45° log.	9·8494850
	10·8494850
1st term	10·0000000
To the perpendicular .	0·8494850

This is clear evidence. As CA radius is equal to the perpendicular by the rule of draft, and log. for 7 being 0·8450980 on the roll of the errors incident to a cramped order, not affecting the above report; for CE and CA at 70, equal EZ, so we start our horses fairly.

But we have other points to show, and other witnesses.

CASE 2.

The angles and one of the legs given, to find the hypothenuse and the other leg.

Making the hypothenuse radius, CE will be the sine of the angle Z, and EZ the sine of the angle E.

To find the hypothenuse—		To find the perpendicular—	
As sine of angle Z, 45° log.	9·8494850	As sine of angle Z, 45° log.	9·8494850
Is to the base CE, 7 log.	0·8450980	Is to base CE, 7 log.	0·8450980
So is radius	10·0000000	So is sine of angle C, 45°	9·8494850
	10·8450980		10·6945830
1st term,	9·8494850	1st term,	9·8494850
The hyp. CZ .	0·9956130		0·8450980

Now, as CZ is a line carrying, at Z and C, equal divisions of a right angle, to which the other sides are 70 (or 7 rad.), so CZ must find a value which is equal, by the circuit of the canon, to give the compensations, if the Tables are correct to that order.

So, in compensations, we have now—

1·0000000 – 0·9956130 = 0·0043870 diff.
to 0·849850 – 0·8450890 = 0·0043870 „

The accuracy of the computators for the compensations is thus proved; so our evidence will be full. Now, it is clear by all idealistic physicists, that nature did not begin at *nil*, as the tables do, to get these compensations. It must have started at something better than 0·000000; and, so, must get to work in real matter, but made,* and so go on. So, the rise and fall on the ellipsis, real, of globes, must be by receiving real matter,—or real weight. And, hence, to proportion that, a real medium of matter, gravitational in the changes of its columns over all globes, as well as air over animals within it, must exist, whether for one mass-condensed centre only, or one heaviest for all. Then, compensations by new matter over all arriving, no errors need to exist. Otherwise, they must; and, yet, as we see, need the correct worker for compensations.

We proceed with the canon.

Case 2.

Making the hypothenuse radius, CE will be the sine of the angle Z, and EZ the sine of the angle C.

As sine of the angle Z 45°, log.	9·8494850
Is to base 70, log.	1·8540980
So is radius	10·0000000
	– 11·8450980
1st term,	9·8494850
To the hyp. CZ,	1·9956130

Here our first term becomes too great to be a refiner or subtractor at all. It has to be subtracted from. What refuges has finite design driven us to. As before, 1·0000000 – 1·9956130 = 0·0023570 in dead loss, in check to life, by the defect on its river of supply; although the same in degree as before for it. Now, the log. given for 99 is, 1·9956352; so, our quotient allows—

100 log. 2·0000000 – 1·9956352 = 0·0043648
Also 1·9956352 – 1·9956130 = 222 diff.

Our diagrams have proved, that the first lot of rotations for the standard of a table is by six chords to arcs; or for six figures of these tables, as old John Norie gave them. Hence, had he used his tables, we should have 22 for the difference. That is, 7 : 22 for the constant value of the square of the rule, or × 3⅐.

So, the Tables actually prove that square was the one they were worked on, unwittingly, by the calculators.

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* The myth of the ancient heathen about Eolus, probably, came out of some remains of this truth as to the first, and of the breath of lives, onward.

Add to the decimals to any extent you will, their set of compensations can only show 1 and 2 over the nucleus, as 3, at work for the the standard rotative, by successions 22 on to 222, &c., for ever.

Again, making the base radius, EZ will be the tangent, CZ the secant of angle C.

To find the hypothenuse:		To find the perpendicular. :	
As radius . .	10·0000000	As radius . .	10·0000000
Is to base, 70 log. .	1·8450980	Is to base, CE 70 .	1·8450980
So is sine of angle 45° log. . .	10·1505150	So is tangent of angle C, 45° log. . .	10·0000000
	11·9956130		11·8450980
1st term . .	10·0000000	1st term . . .	10·0000000
Hypothenuse CZ .	1·9956130		1·8450980

By rule absolute in draft, if CA is taken at 70, so are CE and CZ. And here we have CZ again too low for the hypothenuse to be 100, by log. 0·0043870 as before. But—

CASE 1.

Making the base radius, EZ will be tangent, and CZ the secant of the angle C.

To find the base:

As secant of the angle C 45° log. . . .	10·1505150
Is to hypothenuse CZ 100, log. . . .	2·0000000
So is radius	10·0000000
	12·0000000
1st term	10·1505150
To the base CE, log. 1·845980, to . . .	1·8494850

Now, it is certain that CE is equal to CA 70, radius, to our drawing, and so is EZ.

But here our quotient is as

1·8494850 − 1·8450980 = 0·0043870.

So our compensations by CZ, the hypothenuse, taken as our measures for AV at 10, have shown, are all correct to allow CZ to be 100 by 10AV.

All these errors for compensation on the circuit arise from the need the computators had to give the rotation, similar to Jehovah's act for day and night, but on true increase at His hand. They, however, have, too, to push the actually equal angles of 45° off the balances of equal integrities of power, by mass to mass, of all properties, and get up a "make and setting" off the mere balance of gravitation by securing one angle to carry the ellipse;[*] in all which they are really representing the make and setting of Jehovah, to set what we call the magnetical current at the Designer's use, to get factors to factors without destroying the least part of the term-to-term final realisation of integers to integers on their roots for the quotients final. Hence it is no marvel that we find the electric current is as universal as the simpler weight-to-weight one.

We will proceed yet a little further with our estimates on these rules:—

As secant of angle C 45°, log.	10·1505150
Is to hypothenuse 200, log.	2·3010300
So is radius	10·0000000
	12·3010300
1st term	10·1505150
To the base as 140	2·1505150

The log. for double our base, 70, or 140 to 200, CZ = ZZ, at draft, is 2·1461280, the difference again being 0·0043870,—too much for our quotient.

Case 2.—Norie's Tables.

As hypothenuse CZ, 99, log..	1·995635
So is radius	10·000000
To base CE 70	1·845998
	11·845998
1st term	1·995635
	9·849463
Sine of the tables	9·849483
Difference, . .	22
As the base CE, 140, log.	1·1461280
Is to radius	10·0000000
	1·1461280
	11·1461280
	1·1461280
To tangent of angle C, 45°	10·0000000

Now, CZ is the hypothenuse of these variations in the tables; and the certain double in ZZ through the square, under CA, radius 70; AV 10; and AEBD, the circle, found to be 440, at AB × 3$\frac{1}{7}$.

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[*] Ellipse is in law a necessity, but in the boil there are two, or two ecliptic angles, equal at opposition, instead of one, by design, for full bodily rotation. The integers always carry it.

All the variations are made to run, as these circles of the canon show, in 7 : 22, for the proportionals. Whether we use the single value 70, or its double 140, the differences do not alter; and full honour is proved for the table calculators.

Now, these 22, or to seven figures 222, and so on, prove the allowed theoretical intermediatory of the calculators' minds (not set down) is active in the plans of what Jehovah actually made and set to work, for shorter or longer columns, as weight to weight in the upper ether, which, like light, although subject to change in the bowels, by digestive operations and *entrées*, into all the solids, yet do always of necessity, like light, the power, work from the normal value, 2, back to it again; light doing so as units, or heat bubbles, to burst in ether.

Thus the really active, automatical operation of solids, made, is proved at the use of Jehovah; while the calculations are so correct that we find them represented by what we ourselves admit to be immaterial properties of the mind for the regulation of the hand only.

THE QUADRATURE OF THE CIRCLE BY ARITHMETIC.

THIS is our third line of pledged evidence. Both the Diagrams 3 and 4 prove the decimal currents from 9 to 1 by 1 to 9 in reaction, either for heat to overcome solidity or *vice versa*, to be under the multiplying cypher at growth into space and to be the one alone equal to work by geometry to numbers. Hence, on the Newtonian root, that weight, over all, rules finally, we can claim the right to stand over scales, and find the centre of gravity in the lines of these integers for any universal fluid medium over all.

So $1+2+3+4+5+6+1\frac{1}{2}=22\frac{1}{2}^\circ$ and $5\frac{1}{2}+8+9=22\frac{1}{2}^\circ$. The centre of gravity is not to be found in five, the half of tenths; and, so, cannot be assumed as that for the square, but in the Sabbatic number,—a significant point to the mathematician as well as the believer in scriptural wisdom.

So, we can, now, test it on the full rest of action awakened into reaction, equal, of the calculators for tables, although 7 carries it not in its half, but by ellipse,—$1{\cdot}000000000000 \div 7 = 0{\cdot}142857142857\frac{1}{7}$ for ever. Here by twelve figures, we find six figures, relative in their numbers to the six chords dividing the circle into arcs by radius for them, will succeed for ever. So rotation is equal, or square, for circle, to circle, by any extension under × 2: and, by Diagrams 3 and 4 must be for all intermediate values in a root single. But, as to multiply back by 7 would produce the reduction to the paternal unit for an index number again, we only use this to test the square in repetitions, and so proceed now to admit only one valuation. So $1\cdot000000 \div 0\cdot142857\frac{1}{7}$, is the decimal value for the fractions over 3 diameters.

We will, also, test the integer carrying the ruling authority in geometry over circles, to get the integer for an index value. So $2^3 = 8\cdot000000 \div 7 = 1\cdot142857\frac{1}{7}$. The rule is, as to the fractions of a unit, unaltered. Hence the solid cube and the solid sphere affiliate. Then, taking 7 for radius to be standard as we have done in Figs. 3 and 4, by geometry, we have $7 \times 3 = 21 + 1\cdot142857\frac{1}{7} = 22\cdot142857\frac{1}{7}$. But as this is in overplus by the cubic figure 8, to get the fractional ratio sympathetical, or proportional only, and both fractions value in $\cdot142857\frac{1}{7}$, the reaction, by a unit to a unit, is equal to the ratio in decimal reactions by 7 alone; and is therefore of the current over the tabulated standard, $1\cdot000000$ to be reckoned as simply one seventh to an integer more than three diameters, or $7 \times 3 = 21 + 1$. So, it is 22 alone to seven for the diameter, or one seventh on radius more, as found by the diagrams.

Hence, $22\cdot000000 \div 7 = 3\cdot142857\frac{1}{7} = \times 3\frac{1}{7}$ or $= 7 : 22$; and in either case, carries the value for the circumference to the diameter. Hence, all ecliptic ratios for all organical solids, that are not in electro-magnetical and chemical results to fall into the boil by supply and loss in radiation, must be set in every atom, exactly; so, for all the property changes, that on the centre of gravity given it, the reactions shall run perfectly in established health in the Sabbatic number of the Divine Scriptures, if (as globes and man were) proposed for life eternal in the perfect, pure, and good *in extenso*; in other cases for the rise and fall, the time of life allowed each species for use near it.

We now set a Table, in proof that seven alone can carry over the integers of the root for reactions on to geometrically eternal life under "Let light be," or of food material from God for ever, to prevent subsidence to gravitational weights over all.

Table 1.

ACTION BY LIGHT, FROM THE RIGHT HAND.

$987654321 \div 9 = 109739369$, no remaining carrier.

,, $8 = 123456790\cdot125$, then out also.

,, $7 = 141094903\cdot428571\frac{3}{7}$. Life for ever, by new light for ever, making the bubbles of heat, to add to the remainders to carry on divisions.

,, $6 = 16460903\cdot5$, and out.

,, $5 = 197530864\cdot2$, and out.

,, $4 = 246913580\cdot25$, and out.

,, $3 = 329218107$. Death at once.

,, $2 = 493827160\cdot5$, and then out.

Central Reactions.

123456789 ÷ 2 = 61728394·5, and then out.
,, 3 = 41152263·0. At once death.
,, 4 = 30864197·25, and out.
,, 5 = 24691357·8. By one.
,, 6 = 20570131·5. By one.
,, 7 = 17636684·142857$\frac{1}{7}$. Eternal boil, although as life for ever in need of design from it for an organism.
,, 8 = 15432098·625. Then death.
,, 9 = 13717421. Sudden death.

Resources are here traced for design to vary the terms of life, or to make it at once eternal, so far as the pure sufficiencies are let in over sevenths, for the certain ethereal reactions of the absolute balance of a medium of equalisation,—air or ether, which in all cases must work by sevenths, as the rulers of the circle of equal hemispheres to a rise and fall, by heat to cold, over all factors. In each case, the normal unit has no place, primal, as a divisor or a single value. Only in flood, of more than 1, can it act at all to change the state chemically. It could only float at the surface, as one alone.

Yet, in action, the unit verifies, with its features, the whole system, when subject itself to be swallowed and changed, or burst from an integral crystal, by heat, into a cypher globule, for ever arriving at the right hand of the arithmetical sum; and so to go on awakening the ever dead values into life—changes of closer conformation to itself, but ever subject to a relapse, under pressures, to deposit its mass, as a crystal of light, adding, *ad infinitum*, to time, as kept up for circulations.

It must, in physics, be held to have at warmth (like a snow-flake falling into a hot medium, or as causing it by friction awakened by attraction of the over all refined other integers) a power to keep its unified value of a skin in chemical cohesion equal to resist its heat power of life within only, but no more; and so to burst as it rises to the surface of matter; having obtained over-heat, and so deposits its mass as a fertilising crystal of light, showing its silver lining.

Now, 7 has its dangers, if the setting be not correct, or over a right nucleus. Thus:—

Table 2.

10 ÷ 7 = 1, 3.
20 ,, = 2, 6.
30 ,, = 4, 2.
40 ,, = 5, 5.
50 ,, = 7, 1.
60 ,, = 8, 4.

70 ÷ 7 = 10, collapse, or no fraction to proceed with as by 7 ÷ 7 = 0.
80 ,, = 11, 3.
90 ,, = 12, 6.
100 ,, = 14, 2.

So, if the mass be not made and set for the chemical changes of every atom, so as to be off 7 normal, the body must resolve into the first natural result of a sheer floating equalised medium, or a boiling hell. Hence, while all proposed organical bodies must be set to react on sevenths, the centre of gravity so "made and set" must be off the geometrical centre to numbers, and be fed for ever from Jehovah's bosom.

We can now venture to show the comparative results by other chosen proportions to division over a diameter by radius 70. The first is that of an old geometer unknown; the next, that of modern savants and engineers.

Table 3.

113 : 355 : : 140 : 438·106
140 × 3·1416 = 439·8340
7 : 22 : : 140 : 440, no fractions.
140 × 3$\frac{1}{7}$ = 440, „
140 × 3·142857$\frac{1}{7}$ 440, „

The failure of the savants, modern, was in carrying their fractions by tenths, instead of sevenths. Thus, the Biblical sympathetical key carried me aright, to the glory of God.

We can, also, find evidence by a new table to that by each figure; compared with the multiplier of the decimal current, seen already in a paper on those rotations, by which 3, 6, and 9 did not return all the same figures in any position again, although the other integers did—

Table 4.

·142857$\frac{1}{7}$ × 2 = ·285714$\frac{2}{7}$
„ 3 = ·428571$\frac{3}{7}$
„ 4 = ·571428$\frac{4}{7}$
„ 5 = ·714285$\frac{5}{7}$

·142857$\frac{1}{7}$ × 6 = ·857142$\frac{1}{7}$,
Radius × 7 = 1·000000 reaction into explosion.
× 8 = 1·142857$\frac{1}{7}$
× 9 = 1·285714$\frac{2}{7}$

Seven carries the reaction perfectly to the decimal development of the reacting cypher,—its danger is by a wrong setting subject to fall into explosion; and its safety to life in the right, when a real unit carrier on to the next, in the association of mass real to mass real, is accurately shown. Thus, all the properties are proved to alone work, by mass to mass, at a felt touch. This, if stayed, death is at once. Connection between the work of life foods to life-needs, is lost. This, also, is clearly at use by the maker for eternal motion in globes at supply, or to be varied by support in species for a natural generation of a new-born agent; only at will for the parent life being subject to class and climatic resources at various lengths of life alone. The outer ether carrying the final breath of life in decision over air and all within—itself living in dependence on light from God, to avoid settlement into gravitational rest at equilibrium entire; which, otherwise, it must seek, like all divisors over any finite sum.

That the square of the circle in numbers is found, is rendered positive, as follows:—

Table 5.

$$\begin{array}{r} 7)\underline{22\cdot000000000000} \\ 3\cdot142857142857\tfrac{1}{7} \\ 140 \\ \hline 125\cdot714285714280 \\ 314\cdot2857142857 \\ \text{Fraction} = 20 \\ \hline 440\cdot000000000000 \end{array}$$

The approach to this, by A. Bell's work, is thus in difference—$140 \times 3\cdot1415956 = 439\cdot8233840$—by decimal fractions over eight figures, instead of by sevenths over six to twelve for the double, and *ad infinitum.* Now, mine, by light being understood to be set to work over a true nucleus of sevenths, must declare the rotation of a solid to a solid, or a wheel of life and light to its ruler; but, only as it is engrafted within the mass, its subject, through; when it first works under that solid at cubic proportions by the mass over the bowels it enters. It is on comparison, then, with each other, by ether in action alone, as of impact, that Kepler's third law appears. So—

$$7^3 : 140^3 : : 22^3 : 440^3.$$

The rule is thus, for rotations, made direct under the cubic, ruling, encircling weight entire of the ethereal medium which must run in the bowels, current with the attraction on it over all, for the vertical vortex of light's decision. So, the upper heaven rules the velocity through itself by different values of the axial angles, decided for in the "make," engineeringly; and, hence, the power of its lift for the distance from a main centre is the radius it can give to get Kepler's third law, as the one natural. The velocity in rotation must alter to the intensity the ruling globe has for the light (to be focused or not in another globe) for its state at receipt when this will not alter, but be carried current in the proportional rise for the velocity, through ether by itself.

This bowel force, as it alters from light direct from God on its own focus, by the ecliptic given only, or by a solar condenser for a higher power, must alter the geographical features on the ellipsis of solids, made to higher degrees forced, by volcanic action, until equilibrium is secured in safety-valves of peace, aided by other coolers planetary. But, now, our list will increase to the evidence by reaction.

Table 6.

$22 : 7 :: 8{\cdot}000000 : 2{\cdot}545454\frac{10}{22}$ for ever.*
$22 : 7 :: 10{\cdot}000000 : 3{\cdot}181818\frac{4}{22}$ „

Here, we get the true tick, tick, of check and progress, although ever forward "when they went" (Ezek. i.). This is true clock-work. There is no cypher of death refusal to carry on the action here, any more than at multiplication. We will show results by the other ratios.

Table 7.

$355 : 113 :: 8{\cdot}000000000000 : 2{\cdot}546478873425$, 355
$355 : 113 :: 10{\cdot}000000000000 : 3{\cdot}183098591549$, 105
The first by $\div$ 3·1416 $=$ 2·54647313, 14792

The old philosopher's chaos is come at their own value over mathematics, without mesmerism, and without an old creation in wreck to begin with. The "good" on false action may be made wrong at the human hand. The waltz of the binary stars was not set to work on false squares. We will next trace the mean by the true square for growths in time by integral successions—

Table 8.

Lever $70\times2=140$ dir. $\times2=280\times3\frac{1}{7}=880$ $140\times6=840\times3\frac{1}{7}=2640$
„ „ $3=420$ „ $=1320$ „ $7=980$ „ $=3080$
„ „ $4=560$ „ $=1760$ „ $8=1120$ „ $=3520$
„ „ $5=700$ „ $=2200$ „ $9=1260$ „ $=3960$

Here, the slow processions of growths from a lowest possible nucleus of numbers, is as clear as by geological remains, so that "the beginning" might, as the words of Scripture clearly imply, be God's first time of beginning to act as Creator at all, so that the earth's nucleus, as the first plant for importance in his demonstrations of Divine grace and love, to the glory of his Son, the actor on that stage, should have the preeminence of antiquity over all other habitations, made for His claim, by His adopted creaturehood, to primogenitureship in the native connection, "made of a woman" (Ezek. i.).

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* The oft-used expression in this work, *for ever*, means that light, ever new, comes to make the bubble of heat, or cypher, to add to the remainder to carry on life for ever by.

In the table, we see 5 multiplies to get the Sabbatic number first in the lead, as the centre holder to ten—*i.e.*, the reactor, correct to the decimal square first, and then by our standard radius gives the 22.

I apprehend the vision Ezekiel saw, at the Chebar, implied more than Christ's Lordship over this creation, but its final result on all wheels made, or dominions of God = to 7ths for the rule over equal decimal successions. So this approves our standard for the Diagram 4, by the claims from Diagram 3 formed for numbers. Proceeding to double successions, we have by standards—

Table 9.

Lever $70 \times 3\frac{1}{7} = 220 \times 3\frac{1}{7} = 691,3$
Dia. 140 ,, = 440 ,, = 1382,6
Square 560 ,, 1760 ,, = 5531,3
Polygon 420 ,, = 1320 ,, = 4148,4
$70^2 \times 3\frac{1}{7} \times 3\frac{1}{7} = 484000 \times 3\frac{1}{7} = 1521142,1$
140^2 ,, ,, = 1936000 ,, = 6084571,3
560^2 ,, ,, = 3107600 ,, = 9766742,6
420^2 ,, ,, = 1742400 ,, = 5476114,2
$70^3 \times 3\frac{1}{7} \times 3\frac{1}{7} \times 3\frac{1}{7} = 10648000 \times 3\frac{1}{7} = 33465142,6$
140^3 ,, ,, ,, = 85184000 ,, = 267721142,6
560^3 ,, ,, ,, = 545177600 ,, = 17134153142,6
420^3 ,, ,, ,, = 2299968000 ,, = 7228470857,1

The cubic power is the final standard for mass values to their rights in the line either circular or straight, and while direct, we get at the first action over 70 for the lever, and its proportionals, geometrical, no fraction; yet, at the reaction, light must be subject, as in our tables, by the normal limit over all to decomposition. By the squares there are no fractions from this integer by two operations; but they appear at the third. And by the cubic power there are none at three estimates. But they appear at the fourth, and in each of the three first cases the terminals are alike in 142,6. So the reaction is clearly within on the minor inscribed bowel-operator, the hexagonal figure which, by radius, is first full reactor to all the others at any first line. But by the squares, the fraction, first, is of 1 first, by 2 for the last; thus approving our ratio by squares as between 1 by the lever, and two by its last power, to give a triune standard for all physics by the covenant God designed as for the bowels, over 3 by 6, chords to arcs.

Now 8 is the integer carrying the root for all cubes, from the unit by × 2 for diameters, yet more fully to be considered. But at once,—

Table 10.

$$\begin{array}{rcccr}
1\cdot00^3 & \times & 3\frac{1}{7} & = & 3\cdot142857\frac{1}{7} \\
2\cdot00^3 & & ,, & = & 25\cdot142857\frac{1}{7} \\
4\cdot00^3 & & ,, & = & 301\cdot142857\frac{1}{7} \\
8\cdot00^3 & & ,, & = & 1609\cdot142857\frac{1}{7} \\
16\cdot00^3 & & ,, & = & 12873\cdot142857\frac{1}{7} \\
\text{But } 15\cdot00^3 & & ,, & = & 10564\cdot285714\frac{2}{7}
\end{array}$$

The current of the fractions is unchanged on this direct multiplication of the natural primal stile by gravitation, or addition direct, and although the same figures appear in the alteration of the last by decimals true, yet the multiplying power of the cube being given up, the current alters. Hence, the pressure and arithmetical ratio of the upper ether, as all of dual transmutators, will allow of the square of the circle working under it, at true settings for the bowels, although off the direct succession of numbers to their normal rights; that is, to the true fitting for factors to factors, design has it at use, but not otherwise.

Table 11.

Add 20^3, 40^3, 60^3, 80^3, 100^3, 120^3, 140^3 together seven successions from 10^3 standard. The sum is 6272000 and $\times\ 3\frac{1}{7} = 19712000 \times 3\frac{1}{7} = 61952000$ and no fraction. But again $\times\ 3\frac{1}{7} = 194706285\frac{5}{7}$.

But the representative of magnetical powers for conduction of circulative changes, *i.e.*—seven additions has, $6272000 + 10^3 \times 3\frac{1}{7} = 19743428\frac{6}{7}$, also $6272000 + 160^3 \times 3\frac{1}{7} = 32585142\frac{6}{7}$, and in each the reactionary fraction is of the full six chords of the hexagonal polygon, by the eight additions.

But although 10 cannot be admitted, to make more than seven sums from 20^3, for the first, it may be on its own ratio by tens added, on to radius standard.

Table 12.

$$10^3,\ 20^3,\ 30^3,\ 40^3,\ 50^3,\ 70^3,\ \text{added together} = 784000 \times 3\tfrac{1}{7} \times 3\tfrac{1}{7}$$
$$= 7744000 \times 3\tfrac{1}{7} = 24338285\tfrac{5}{7}$$
$$\text{And } 784000 + 80^3 \times 3\tfrac{1}{7} = 4073142\tfrac{6}{7} \text{ by seven terms again.}$$

Thus, sevenths will not give up the rule as the conductor of the elliptical resources at design; and hence the skill of the Creator was, at His own will, as the Bible declared, bound for Himself to the straight covenant of a law, as "weight by measure." "Are not My ways equal? saith the Lord Jehovah." Hence He must, in law, demand it of His responsible subjects, that His own hand be not wounded by sin. Were we not to secure redemption, after the bad came in, by faith only?

The reactionary proof over all is by the cubic integer, on division for ether over all, in reaction.

Table 13.

$$\begin{array}{lrcr} \text{So} & 6272000 \div 8\ (2^3) & = & 784000 \\ & 784000 \quad ,, \quad & = & 98000 \\ & 1974328 \quad ,, \quad & = & 2467926 \\ & 61952000 \quad ,, \quad & = & 7744000 \end{array} \left.\vphantom{\begin{array}{c}1\\1\\1\\1\end{array}}\right\} \text{No fractions also.}$$

$$\begin{array}{lrcr} \text{And} & 7744000 \quad ,, \quad & = & 968000 \end{array}$$

Thus the cubic power, but thrown into the action of the decimal circle, proves itself to be, for the ethereal heaven, a true ruler integral, as all of dual globules, at the ratio of its mass-power, hydrodynamical, as air and seas, also, work under it,—a most important demonstration to the glory of the Divine historical synopsis (Gen. i.). Also, we can trace that the covenanted seed, minor, to be generated in the loins of the male, for the gestation of a true female womb, must be correct.

Table 14.

$$6272000 \div 7 = 896000 \times 3\tfrac{1}{7} = 2816000.$$
$$\text{But } 2816000 \times 3\tfrac{1}{7} = 8850285\tfrac{5}{7}$$

The resistant antipathetical fraction of inferiority, but for the same genera appears, by the connection of the nearest likenesses of species law will allow in the pure, for this affinity.

Alter the relations $22 : 7 :: 2816000 : 896000.$

$$\times 3\tfrac{1}{7} = 1816000 \times 3\tfrac{1}{7} = 17933142\tfrac{6}{7}.$$
$$\text{Also, as female } 784000 \div 7 = 112000 \times 3\tfrac{1}{7} = 336000 \times 3\tfrac{1}{7}$$
$$= 1106285\tfrac{5}{7}$$

The full succession, infantine, is found in the first quotients, but will go no farther. Even the fractions differ by the unit of light ruling conduction of life over all in $\tfrac{6}{7}$ to $\tfrac{5}{7}$.

This close attachment—law allowed for the reach to all legal variety, but in God's time "So far and no farther," by the covenant of nature's system—has deceived the savants who despised the Book of Jehovah as the true key to all science. But the proofs it was the Book of the Almighty were enough to leave the fault all their own by other means, such as miracles and fulfilled prophecies, &c.

Not even a table can be set by natural selection; for it must find true compensation at design. Yet, then, they only in part follow all nature. Proof against infidels was at human hands enough.

But that error, once in, may, by a most truthful operator, be checked, although not expunged; we can show—*i.e.*, physically—

$$7 : 22 :: 62720010000 : 1971200314 28\frac{4}{7}$$

The addition falling into a decimal character, gives the return of the square for ever. But then, all must go on therefrom. Also, terms may be set which show collapse at once. Thus, $3^3 \times 3\frac{1}{7} =$ 84, 6, a vital fraction is there to carry on the thread. But $28 \times 3\frac{1}{7} = 88$. We get two crystals of metallic right, only piled as a stalactite. Now, no fractions assist to show completeness in a personality except as at the feeding of light; the current of life must be carried by a value real on to the next associate, so as to preserve the waste of parts ever going on. Thus, by a more full representation—

Table 15.

$13652912 \times 70 \times 3\frac{1}{7} = 3003640640$
„ 71 „ $= 3046549791$
13652913×71 „ $= 3046550015, 2$
„ $\times 70$ „ $= 3003660860$

What minute accuracy, then, was required not only to set the globes of heaven by the earth as the first standard, but also all her infant genera current to all her time resources for either good or evil, to the magnetical ratio of a fraction at work in decomposed globules of light. Omnipotence is clearly the only means for it. If, therefore, moral government exists at all, it must clearly be subject to God's law, or ruin comes in; for moral actions affect the material results. To such a varied extent do these forces act that 980^3 may be multiplied by $3\frac{1}{7}$ six times—*i.e.*, to the full current of chords to arcs over the circle without the fraction of a unit of light appearing.

Now, all these experimental values are, at the rule, only to get a boil, whether of powers or net standards, as numbers carry them by no factor settings at all. What the skill required, then, to set all the values through, off that, and to get pure results of peace universal for Eden, by the changes for full ellipsoids; to which form, natura operators have no more tendency by their integers than our figures have to decide a coinage in any factor varieties, which at any error work to tear all to ruin; although, at use, to carry all when right to the settlement annual.

Although at an early stage, we will now introduce the earth, to show her standard rights.

Table 16.

PERIOD, BY PROFESSOR LYNN'S PAPERS,* 31472014$\frac{1}{2}$.

7 : 22 :: 10000000 : 31428571$\frac{3}{7}$ by square for ever.
7 : 22 :: 987654321 : 3104056437$\frac{18}{22}$ „
7 : 22 :: 123456789 : 388007051$\frac{1}{7}$ „
22 : 7 :: 10000000 : 3181818$\frac{4}{22}$ for ever 8$\frac{4}{22}$.
22 : 7 :: 987654321 : 314253647$\frac{13}{22}$ by square 8$\frac{4}{22}$.
22 : 7 :: 123456789 : 39281705$\frac{13}{22}$ „

We will use two of these standard quotients to show that natural selection, even if it could get to work, must breed nothing but a boil.

$$\begin{array}{r}
39281705\frac{13}{22}\\
9\\
\hline
35353350\frac{7}{22}\\
22\\
\hline
707070707\\
707070700\\
7\overline{)7777777707}\\
\hline
\underline{1111111101}\text{, lightning.}
\end{array}
\qquad\qquad
\begin{array}{r}
31425367\frac{13}{22}\\
9\\
\hline
2828282828\\
22\\
\hline
5656565663\\
5656565663\\
7\overline{)62222222223}\\
\hline
\underline{8888888889}
\end{array}$$

Now 123456789×9 1111111101, and 987654321×9= 8888888889.

So perfectly does our square answer under 9, the test figure of the arithmeticians, to return to integral roots. But we will illustrate a shot thrown by the final forces under a touch-hole. But first design the hole, &c.—

$$\begin{array}{r}
2828282828\frac{7}{22}\\
9\\
\hline
25454545454\frac{19}{22}\\
22\\
\hline
50909090908\\
50909090908\\
\text{Fraction, }19\\
\text{Spark, }7\overline{)560000000007}\\
\hline
\underline{80000000001}
\end{array}
\qquad\qquad
\begin{array}{r}
25454545454\frac{19}{22}\\
9\\
\hline
229090909093\frac{17}{22}\\
22\\
\hline
458181818186\\
458181818186\\
\text{Fraction, }17\\
7\overline{)5000000000063}\\
\hline
\underline{714285714294\frac{5}{7}}
\end{array}$$

The last quotient finds a belly in the current of the square itself. But in all cases the decimal figures show their native powers to carry ellipsis, or a head to the foot, correctly, for any setting in the body,—anatomically,—design perfect can demand; if the reactionary forces by magnetical powers, increasing, shall exist to give the limb-developments fitted for it also.

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* "Chapters on Astronomy," by W. T. Lynn, B.A., F.R.A.S.

Reverse the order for results in solids, but of more muck—

$$\begin{array}{r}
3535353350\frac{7}{22} \\
9 \\
\hline
31818181852\frac{19}{22} \\
22 \\
\hline
6363636304 \\
6363636304 \\
\text{Fraction, } 19 \\
\hline
69999999363 \\
\hline
\end{array}$$

We will add a Table from one of these quotients natural—

Table 17.

2828282828$\frac{7}{22}$	× 2 =	5656565656$\frac{14}{22}$	× $3\frac{1}{7}$ =	17777777778
„	3 =	8484848484$\frac{21}{22}$	„	26666666667
„	4 =	11313131313$\frac{6}{22}$	„	35555555556
„	5 =	14141414141$\frac{13}{22}$	„	44444444445
„	6 =	16969696969$\frac{20}{22}$	„	53333333334
„	7 =	19797979789$\frac{5}{22}$	„	62525252523
„	8 =	22626262626$\frac{12}{22}$	„	71111111111
„	9 =	25252525254$\frac{19}{22}$	„	80000000001

The ellipse requisite to carry on the double rotation of the boil is ever there; but the natural selectionists should have first learnt the infant-school order of these discoveries—that decimals respond to all primal changes—before denying direct design to be absolutely required for an especial setting to get out organical species.

But the divine synopsis has met its object at last.* We shall here only add a full table from the diagram, as the root carrier of three symbols in one unity presented by law, to teach true theology is rational and real, as revealed in the types used.

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* Hugh Miller's general views are fully corroborated here.

The Consummation Table by Diagram No. 4.

Leverage root for the square, radius 70, for 7ths = 70
Diameter = 140
Hexagonal polygon 70 × 6 = 420
Do. + 2AV = 20 = 440, the circle AEBD
Diameter 140 × 3AB + 2AV (= 20) = 440 do.
7 : 22 : : 140 : = 440 do.
Diameter 140 × $3{\cdot}142857\frac{1}{7}$ (decimal square) = 440 do.
Circumscribed square ZZZZ = 70 × 8 = 560 circuit.
Inscribed parallelogram AEBD = 400, add OK = 20 × 8 = 560 by points of the solid sq.
Do. + OW = 10 × 4 (under CV radius = 60 to CA 70) = 440 circle.
Do. + OK = 20 × 2 (by CA radius to the circle's surface) = 440 do.
ZZZZ circumference, 560, by 22 : 7 = $178\frac{4}{22}$.
440 : 560 : : 140 : = $178\frac{4}{22}$.
Hexagonal polygon 420, by 22 : 7 = $133\frac{14}{22}$.
AV = 10 × $3\frac{1}{7}$ × 14 = 440, circle.
KO, by depth from circle AEBD to its inscribed parallelogram AEBD, or 2AV = 20 × 22, the standard for the circle to 7 diameter = 440 also.
KO = 20 × 7 = diameter = 140
KZ distance, as 3AV, = 30 × 12 = horizontal circle = 360°
* Equilateral polygon due by CV radius = 60 × 6 = 360°
Do. + two sides of inscribed parallelogram AEBD = 560
$0{\cdot}142857\frac{1}{7}$ (decimals of the square) × 140 diameter = 20·000000
Do. do. × 70 radius = 10·000000

Now, all changes under what is called natural selection, must be bound, by all growths of the mass, to follow on exact proportions to these primaries—whether for those major or minor.

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* Not put in, to avoid comparison of lines.

The radius, CV to CA, is that of the geometric root, general for all circles to square to their diameters.

Then, as all these results, by straight lines to arcs and circles minor, proportional to the major in progress, depend on AV being a perfect seventh of AC—the standard radius under the scale—it is clear that no question can arise as to the least possible error by the hand at draft. And the same for 3AV, outside the circle AEBD, to reach to the extent of the diagonal lines of the square ZZZZ from C.

Hence CF, half of CZ, must be 5 to 10, showing the compass centre of integers decimal to work the cube, and to find its mass, with that proportional in the circle of that diameter; and the harmony of the root the table-calculators were using, is also proved to be the same as that here found, however ignorant they were of these facts.

The external KZ line $= 3AV$,—$OK = 2$, and FW, 1, show these actions to reactions are essentially rooted to those numerical roots 1 2 3, normal, for a start of law.

Then CZ, as 100, gives us the first cubic value for a table, in 1,000,000; or as 10 simply is of $10^3 \times 10^3$ to action and reaction in the same. But we must work this from 70 radius for the circle—*i.e.*, by the centre for the power to be kept up, to get this decimal order at work. For ZZ is 200, or 20 primarily, either of which will not find the root at the cube from action to reaction; $20^3 \times 20^3$—16,000,000, although $20(AV + BV)$ will give the other succession to 100—*i.e.*, 200. But this, by the start, for working.

Nor should we forget that the circle of law is derived from a perfect seed-nucleus, or radius at 14, for the character or birth in generative perfection. This is of much importance by Leviticus and all the Bible, as a key to the root for any person or thing of the perfect above all results of wrong. If, then, the balance is to be shown on one globe to work by three, as we shall prove the eclipses do, so that these ratios direct are to be given up to get the three needful globes at mutual internal bowel differences, to show it between them; it follows that nothing but the most perfect skill Divine could arrange all the working parts to accomplish it, besides those all harmonically, and yet all different, of globes above and organisms on the earth.

Thus, law is proved, by the Mosaic key, to be true and perfect for the declared working actions taught in all the Bible.

Those grand inspired pages are demonstrated to be practically correct, and the only true key to the principle of natural physics.

God be praised for this gracious revelation thereof! May it be more esteemed in future.

THE ROTATION OF THE INTEGERS CARRYING ELLIPSIS OR LIFE.

As this is the root on which natural selection in respect to the first formation of species must be really brought to proof by the observed working freely in nature, by the operating globules to decimal changes, we require to give it its real due, and to see where it can proceed no further.

If nature, throughout, is to be held responsive to decimal records, it is certain, that while we proportion increasing masses of figures together for ever in mere forces for terms, not a grain of tendency can turn up to get one factor, although as masses they work on the powers of solids, or by the cube of the square natural, *imprimis.*

Our first point will be, to find how the figure 7 does, and must carry the rotating centre for the square of the circle, by equal hemispheres. Like all other figures, if responsive to natural law for a universal type; it, and all the integers, must work on a unit decided for the dead weight ratio on its resistance to motion in its own mass, and the equal gravitational ratio in attraction.

Then, 1, 2, 3, 4, 5, 6, 1½, added together, and 5½, 8, 9, the same, at once declares the harmony of attraction to do the work of addition, and where the centre of gravity lies. Also, as this is of perfect equality in the body of 7 (but for ellipsis by transmutation it must not be in the centre as 3½, for its determining-action-centre, as is well known for all bodies not carrying the mass centre in the geometrical centre), so the pure balance at once admits a previous proposition of ours herein,—That the cypher does not belong to the decimal nucleus; but must be born as the result of an actual power, new, which, after entrance by pressure of 22½, the value of these two equalities is forced out in a globule of equal sides, at the other end, to carry the claim and for advance into space—growths by feeding on ellipse, thereby born. Then, as the cohesive ratio—although equal to the gravitational as a whole, of necessity for working with it for equilibrium—being subject to a greater value at the highest pressure, is more loose at 1½ depth than at 5½; and, so, carries the rotation into fact, even for the integers at mutual action by the required ellipse of numbers to numbers, inherited from light; and, so, will work by mere terms to terms, to any addition ever made, under the paternal unit by reaction. This only can provide the action into half to half for the boiling of a pot, at the absence for any particular setting to carry the current of power, in superiority, against this, in one line of advantage. The boil has only the axis of 90 degrees, divided into radius, from 45° to 22½, for the circulation of equal hemispheres; and by the power at work, 10 to 10 is all, except as the decimals add on by mass to mass, new cyphers for 100 to 100, &c., as for our extension of standard tables we use.

Table 1.

123456789 × 2 = 246913578
„ 4 = 493827156
„ 5 = 617283945
„ 7 = 864197523
„ 8 = 987654312
3209876514 1st Quotient.

123456789 × 3 = 370370367*
„ 6 = 740740734
„ 9 = 111111101
2222222202 2nd Quotient.

In this Table, our first five numbers give the same figures again, only newly placed; and no extension by a cypher into space, new, is needed, although the whole power of the masses does. But in the quotient of all their values they all appear with that figure as a decimal force by its position. But with the unit of light here alone we could do nothing. It must, as matter works also with matter—as Professor Tyndal's experiments in his work on Light demonstrated to his own surprise, and as before-hand in earlier works to his, I had maintained; so it is subject to work, as only by matter carrying all its properties under attraction of globe to globe, as well as from over all to all. It is a fluid of weight in its agency.

In the second part of our Table, by 3, 6, and 9, we get the layer-making force in these elliptical operators, in which, by the two first, the granitic, primal, plutonic ratio of crystals, which the first solid under light produced, as we find it geologically in granite.

But observe, to get these, 3, 6, 9 must be so set as to have an especial advantage in their lines of operation to obtain them, when to a degree of superior power they would carry this, as heat, against others.

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* On the decimal value of the square of the circle, 3, 6, or even 9, all work true to their rotation, with no layers "Dry." So in designs for rotating globes this has to be secured against the natural boil over 7ths.

For, if the line of attraction by mere numbers—complete to the rule of Diagram 3, as of a mass—be set so that the centre of gravity exists, it must work in multiplication under the geometrical rule for the birth of figures, which is by 1 to 9 back to 1 again, over 7ths; and hence, as natural setting in gravitation only to natural draft on a multiplying penetrator, the result will be equal to the aspect by the square of this setting of the integers at settlements, or if of the cube for a solid, no such a state can remain fixed in for ever, such as we find in all plutonic rocks for their crystal agglomerations. Although each figure, 3, 6, 9, will when at work carry its own score, reaction would, with the mixture of other values, utterly change it as going before or following after for more. Much less could secondary granite appear, or porphyries, as based on its preceding values.

But here, by 9, we get the flash of lightning, and by the quotient, the current root for the ethereal reactor over all in column to column, when both carry the new elliptically developed rotatory cypher.

By 3 and 6. The clay, felspar, the silicate, quartz, and the metallic first white development of light all appear in separate states of granite, mica being the last. Yet in each is the compound, general, existing in degree for analysis. But all these figures represent fluid globules of different densities, and only by the superior setting at design, to get the full bodily rotation out from the boil, could any one cool down to show settlement back to magnetical forces ruling the facets of a solid crystal. Natural selection says, On, on; no rest. Boil, boil for ever and all through.

Our next Table will require to show the results by the reverse, and superior line of the integers also.

Table 2.

987654321 × 2 = 1975308642
„ 4 = 3950617284
„ 5 = 4938271605
„ 7 = 6913580247
„ 8 = 7901234568
25679012346 1st quotient.

987654321 × 3 = 2962962963
„ 6 = 5925925923
„ 9 = 8888888889
17777777775 2nd quotient.

Here, again, we have similar results to those of the first Table,—*i.e.*, all the integers; but at the higher claims, with the cypher now appearing in the first five quotients. The rules of transposition under transmutation and transfiguration, can only keep the same decimal values in waters to waters agoing.

3, 6, and 9 alter their values, but still give the first three figures in constant successions, except at the tail, for ellipticity, by universal need; and 9 settles in a succession of the integer carrying the first cube-holder, in $2^3 = 8$. The second full quotient shows how all their ellipticity, natural, tends to settle on the Sabbatic figure, which carries the root for the setting, to get out a new order; but so for every atom that the square of times to times integral, shall not be lost. The ellipse, here, is between bowel-projected units of light reappearing, after decomposition, in the centre, and 5 the central figure to the full decimal ratio, thereby set at work.

We next add the related quotients.

Table 3.

3209876514	25679012346
2222222202	17777777775
5432098716	43456790121

In this first full quotient, all the integers appear. In the last the 8 is, again, thrown out, and two units with two fours appear.

Further, to carry our evidence for the boil by draft on integers, to integers only, or of natural selection at test.

Table 4.

43456790121	43456790121
+5432098716	—5432098716
48888888837	·38024691405

The last sum loses the seven, and instead we have two of four. The first has almost the entire solidification of iron throughout. But elliptical release by the flux to the rise of a power so fine as light is there in aid. Yet there are more variations of the natural boil.

The first Table in our last paper has shown the action of light, equatorially to one side, at the line of main draft through any body, by the disposition of any mass. Now 7ths alone can carry the reactions of integers, which is absolute for the ellipsoid, to a ratio exactly proportional to the pure circle, so that life eternal can be secured. As the integral rule may be especially altered, at design, if the designer can so set all parts in the ellipsoid, as to carry the over-action into the exact minor of reaction for rest, are reaspirations in every vein and limb, over the vertebrate axis decided on.

We say we can divide 4000 by 2; but this is not in science strictly true. We can proceed no further than the 4; and having no carry, death comes in against further action. So is it in life real, as doctors know. Our act in the assumed division symbolises only the fall in weight of an avalanche of snow, or other dead weight, when the supports are withdrawn from below. It is then the law over the gradients of weight to weight only.

To get this at work at all involves the need of design and an over-force new,* under integral first rights, direct, made to act on a compensatory setting for full order in the whole circle. Hence the "dry" absolute as to a time right comes in—*i.e.*, the means for Land, solid, in animals and vegetables the cuticle or skin.

Sudden death is the same in its root as a slow death. The loss of the chemical career of further association for the blood is more hastily developed, and collapse by gravitation alone at work takes place. It is no algebraic jump to a change or gradient due. Nature knows nothing of this for short stile.

Now, 7° for the equal reaction of both hemispheres is the only angle natural selection can, in idea, possibly carry. This is clearly proved; and not even a knife can be said to cut a cheese if the cheese has to be broken to finish the separation,—whence the knife only can, at the power, reach.

EVIDENCE FROM DECIMAL PROPORTION.

Although I have, so far, accepted the working power of nature's forces as able to get up the boil, in a nearer approximation to natural selection, in idea, than to get factors organical to factors, it must be only so held as respecting that point as an "Ideality" entirely. For if nature is, for any act, supposed to have properties able to work herself, as of her innate, then the ratio of gravitational rule is thrown out utterly. For the dead-weight is equal in entirety to the whole mass. We have traced the truth, that if attraction adds to a force, as of dead-weight against motion, that force, so added, must be held to be *à priori* to what is in other faculties at work, apparent, and the original state to be so added; and this dead-weight, piled into any mass by additions, increases that resistant ratio for any motion whatever. It is the innate state real of being—"a thing" made at the use of the Maker.

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* This idea is carried in the Biblical expression, "without form as to the earth's nucleus, and "void" of power and form, without action in law for it by light new to all.

Then, even if a mass existed to draw matter by attraction, the force of draft in gravitation is exactly equal to the resistant force in its state of compilation; and compilation *à priori* against any force of change involves the right of resistance to all change, not only by that gravitational, but all the cohesive forces in each part, and all the mass. Attraction, then, fixes the least dot on the surface, as able to resist change on it by the attraction on that draft of the mass on its own centre through. Looseness in any atom from that transfixing clasp, when existing, must arise from the force of the actually radiating power after it has penetrated to the centre, and rises through all the mass of any sphere. Of course, we have also proved that attraction in matter can only be used as a title of exposition, as the native inertness is by law, and all observation, always equal in two masses apart, is the supposed force in them, and so both must be brought together by the Creating Person. So all balances of nature are simply the direct work of God's hands. The attraction to His own purpose.

Not even the boil of hell could exist except at His will and operation, nor to annihilate any part. It is only on these principles of true science we can consider proportion is at work as well as justice.

In nature proportion, as between globes, does not throw off a gradient as a fourth body. They have no resources for procreation. All idea of their exuviæ so forming must be given up, as there is no female womb of that class.

They carry the working forces in their bowels, and the quotient is chronometrical by time to time between the gross value of light received and digested by offset gases from exterior resources, and the gross value of the outer pressure for the reliefs to the value in the ethereal heaven,—this last body also ruling the times by the impact on them, as air does of birds; water, for fishes.

The relief-gases become those of ether, as dual like it; while all fractions less than that burst to settle on the older soils, to fertilise in latent means for light. By our further study of simple proportion, or as squares and cubes for solids, we need only to show that the boil must exist; unless the especial action of Jehovah, in His use for His multiplier, light, was to set, as we do factors, as coins of a state standard, all the operations of which depend on the mind at action; and so each must be first set so that those preceding or subsequent in the make, shall work duly to the law ordained—*i.e.*, place and force in changes, subject to the mathematical nepos, or weight to measure.

Then we can carry out our treatise in the truth, as the glues, held by us to fix nine units hard together in a nine, or other globule or solid, for the gravitational fixture of separate figures in a line at subtraction must all dissolve, or separate to no true law, under a power at our justice of spirit otherwise.

So sunlight, the earth's fountain in supply, acts to free nature's relapses to tightness over that fixture given by her night-radiating gases exactly to that force of supply; and the proportion of dead-weight and glues of unity in each animal, flower, or fruit, to increase the life activities. The same to winter and summer solstices.

But here the elliptical setting for order by the due ratio of the magnetical forces, set in and coming, must be exact. Condense the sunlight by a lens, and we burn or burst our agent of test. A blaze is but an extreme burst.

So from the time the earth's reception of the magnetically-setting crystals of her soil attained a force equal to acmé, by the resisting ratio of natural weight to the axial angle,—which, in regard to receipt, at a low nucleus, may be low in the starting focus,—the quantity of light in use to her, and, therefore, to all the universe, must be settled to a constant Edenic ratio of simple sufficiency to keep equal times. And the fact of equal times existing by each globe particularly (be the variety separately what it may) proves it has been so. Proportion has been kept to by Jehovah for the given Edenic peace above all cataclasm within in earthquakes, or without.* That that has occurred in these things is, by the acts of other hands, in error, at home, so proved.

Proceeding with a gentle hand, our first example shall generate the cypher at the lowest order possible—

2 : 2 :: 11 : 11·0   22 : 2 :: 11 : 1·00†

We could not use a single unit for the third term at all. The unit for the reforming power at the highest degree normal must act as a thread, or come into action with others by its fitness to draw the upper waters extant with it. The first equation shows that the 2 and the 1 must settle all over others; but at this value give to a settled mass, by such second and third terms, or subjects at work, no other result than to throw back into ether the light received, and leave the subject unchanged by the power in results. Also, the next quotient, 1·00, involves that, although the cypher appears, it only claims to show here that if the divisor be equal in weight to the multiple of the subject and the power, no change takes place except by ingraft of cyphers.

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* In calculating a table, it is like as in a globe—the quotient is not outside, but runs in the current of the body; and the calculator has to start gently, although he cannot really add a figure to increase the size, as God does by light. So, also, he must end gently at acmé.

† As the cyphers would exist if a unit or other integer preceded them in the remainder, so they have a generated right to do so, otherwise, after the work started, as bubbles of heat or natural hollows, if even to expire.

Thus the exact balance in numbers of the ethereal heaven is proved to be required; just as air of double weight would ruin all the life-fibre of all its subjects, or if no light, leave them subject to crust into death.

The same for the proportions in ether to work the globes of heaven. Hence this proportioner and air are both called Firmamental Heavens by Moses, to help us by one to understand the working order of the other, which help unbelief has thrown away. Now, that mere term-activities by proportion follow on, as by the previous paper we showed integers do, as multipliers or divisors only, to declare the results in currents of rotation, will be seen best as we do not complicate to higher masses at first. So—

22 : 3 : : 111 : 15,111.

The first rotating integer of the whole radex here appears seated in the body; the fractions are, like the other parts of the quotient, returned units. Now, as these fractions are refined values to law of decomposed light at its normal issue for the standard between all mass compilations, whether given to the subject in its first nucleus or afterwards, for all such, hence the fractional ratios by decomposition from the digestive pressure must decrease in weight to the value in the mass growth's entire and particular.

Thus the differences between telescopical and microscopical denizens of the universe must remain on a ratio of law, and in the hand of Jehovah, as the natural "Good," rested on *ad infinitum* possibilities at His will balances.

Let no man wonder, then, at what is so discovered, but only admire and praise. Here in the last quotient the fractions represent the radiated spark of light from globes, and so light that they must burst at the weight of a medium they are thrown off into,—so, to discover that magnetical radiance within their skin, light to the eye. The others are to be imputed at work in the veins and tissues of the body. Hence, "Let light be" not only involved the "power" to work all, but to introduce the visible realisation of the light to man to see Jehovah's purpose in all sparklingly. If action, by the new quantity received, be not kept up, darkness entire, as well as death utter, would result. But as "Let light be" was an absolute covenant of power, so existence by the power is the same. All philosophers have admitted that they can find no annihilation of an atom. So disorder must work misery to all left to nature's laws, now that evil has come in, and increasingly to time. No man can say, My evil shall hurt me only. Place now a standard equation of lowest difference between 1, 2, and 3:—

222 : 333 : : 111 : 166,111.

But make the thirst of light (say, as a study of law, or music, or of drink, or of plum-pudding) above this as to proportion, what is the result?—

222 : 333 : : 1111 : 1666,111.

The design by the first three rotators must exist, or we get the 666 of the Man of Sin's number. True law must work on the difference in the three normal standards God has set for types in matter for Eternal Mind to teach us Himself; the great mystery revealed in nature and the Word our Maker.

Now as to rotation,—increase this lowest normal state natural, as you will, and only nines in the multiplicand increase, with sixes in the quotient if the balance of the power alone increases over the same value in other terms. But it is not out of balance when the divisor and subject have equal numbers to the feeding power. The body and the radiation are at true reliefs. So—

22222 : 33333 : : 11111 : 16666,11111

The second multiple for division was, in working these sums by four units of light, 369963; by five, 3699963; and so for a crust of likeness for ever at addition of light; yet the fractions are but 111 in each case. But when the third equation is multiplied we have 370362963, and the fractions radiated are at the balance 11111. We have variety come in, integral; so we turn this out in the working agents; for even the organs of thought, the brain powers, no man can get at more true light than a just ratio to his natural powers at roots of just progress. Forcing the brain, even for the pure and good, will but be evil and bring madness. Rest is required here also, and rule as to enough at a time.

But in respect to all nature, if we find these roots return on the first three rotating figures so steadily when at even balances for the divisor, ethereal in weight to measure by the subject—and the power over both—then it is plain that a radex of reactions limiting them in geometry, or measure to measure, in just reactions for lines, circles, angles, &c., &c., by elliptical settings for simple masses, rotating in the bowels, will but secure the more numerous values in change, to act on the same principles for returns in decimal roots only at the boil—or as simple powers to powers at first natural use, as of time's doings. Again this simple sum following proves the rule—

21 : 3 :: 11 : 1,12.

The fraction has placed the first term in exact reversion as to position; under assumed gravitation in the divisor, as a projecting weight over the centre multiplied. So gravitation is strictly followed out for projecting a true equal hemisphere only. We will now proceed to higher values.

222222222 : 123456789 :: 111111111111111111 : 61728394560828398

Here, we get the 5 in its divisional place over decimals, that is central; and all the integers are in the sum from 6 to 5. Thus rotation is only throwing up sameness at last. But the difference between head and tail speaks.

61728394 – 60828398 = 899996.

But if we add a cypher to the tail for a point to begin progress at its lowest and first start, we have 617283945 – 608283980 = 99999965. This leaves but 35 for the circulating ellipse of numbers. The highest log. of Chambers is 9999957 or at 43 diff.

Add a unit to our multiplier, and we get—,

617283945617238544, 1134557811.

So great is the change by one unit of light in stream.

Then, 617283945 – 617238544 = 45401.

In the first half are all the integers again, only subject to replacement. In the tail all but the nine, but a 4, 45401, for its expectation.

Thus, the idea of natural selection to get up a species, gains nothing by the increase of numbers at geometrical settlements alone, or gravitation by draft and disposition of all.

Reverse the order in the integers.—

222222222 : 987654321 : : 111111111111111111 : 493827160993827160,19101111.

In this, at this balance of the divisor and power over the more noble setting, and true line, by a gravitational settlement, at a throw into the ethereal womb, heaven,—the centre is between a cypher and a nine, as of a hold over space in vacuo.

Then 493827160 × 2 = 987654320.

But 493827160·9 × 2 = 987654321·8.

This current is, of the most sheer line of returns alike, or rotations alike, or rotation for ever, at such a setting. So,—

493827160993827160·1901111 × 2 = 987654321987654320·3802222.

The ellipse is safe in its returns of sameness by the force between 1 and 2 over 0, at the current fraction. So, to get a pair of wings, or arms, of near equality, is absolutely hopeless at such settings, for here the second likeness is thickest at its place of junction, but the right hand one is thinnest near the centre.

The decimal correctness is presented by the head to the tail—983827160 − 493827160 = 500000000. As exercises on arithmetical law for young students only, these points are of value.

Now, although all masses, made as factors from a nucleus thrown into a line, will have that line swell out by heat, to a spherical form, if the agency of an attracting and pumping medium be all round it, so that their values, half to half, represent these values for arcs of distinction, yet currents like these could but give those of the heaviest weights to the lightest swinging round and round in a boil. Still, the male and female claims would be there, in the certainty that the melted heaviest weights would follow each other by attraction, as of a double cometic nucleus followed by the lighter tail.

But such contrasts as from 49 to lead, at the first decomposition, on one side, and 93, or others like it, on this root, would never do for organical differences. Could engineers work so?

But, more than this, if fixture for land could so exist at all, these ratios for the two hemispheres must throw up these superior values in circles of greatest weight on equal lines, each side of the line equatorial, to make the land at belts, like Jupiter's clouds there, although really of only moving slush. By no possible means could arms and wings, with legs of likeness, get a fixture for the densest part at the centre, or for mechanical action nearest it. Every engineer must see this.

The relapse for all divisions over a nucleus being settled by dual globules, and being entire in their over-all mediums, and for its passage through all bodies, to reach for such equalizations as near as universal ellipse can command between them and units, is seen as follows :—

22 : 1000 : : 11 : 500

The subject body has this standard ratio for it ; but, at a rule, that does not by higher forces change it again. For by the medium 500 here represents the equal shoot out, although of only a current to rise and fall on each side the axis. The cyphers show us the testimony to the beauty and skill in design for the refinement and lightness of feathers required. So—

22 : 987654321 : : 11 : 493827160,11

This shows the skill for 4, as the pinion-joint, with the strength of the bow and points. But all these must be got on contrasted setting in design, under the mere currents natural, *imprimis* for the final balances.

Comets could not possibly aggregate to other rules than the various currents of light, &c., &c., directly affect the globules, under the simple pressure of the universal ether, which works only on term and power principles to carry the balances, except as its subjects are, like locomotives, by air made to work at ordered distinctions first; or have a seed nucleus, which will chemically develop the species by its being so thrown off, after being gendered in a father, fit for organical factorship, by design interfering.

But we will illustrate again the claims of the first three integers which balance the full ratio of liberty for the radex natural, 10:—

$$987654321 : 1000000000 :: 321 : 325,12345675$$

Also—

$$123456789 \times 4 = 493827156$$
$$987654321 \times 5 = 4938271605$$
$$987654321 \div 2 = 493827160,1$$

Hence we can see that the major value in the line of the integers, if they are to form the nucleus standard, was the right one to set, to get up the separation by light, the subtracting heat proposed, for the ethereal pressure to split that line into circulations spherical. But the most gentle ellipse to design for a male and female difference exists, to tell even then the close degree which skill in species could admit for the likeness under masterly settings in a covenant, and also, when the check must exist, to prevent mules carrying on generation.

In all cases, also, light must polarise to set distinctions of attraction for sympathies chemical, or antipathies, as is admitted exist to observation.

The next illustration will interest any student who will work it out; but it is too long for insertion here, as it is not in the quotient so much as in the working lines the interest is.

Let him set twenty-two figures 2, and a unit for his divisor, as A^3; then for his second term, 987654321^3, his third term being in the balance of weight equal to them both, but of units of light 45 at the square,—Kepler's third law. He will soon see the impossibility, by natural selection under the root ratios for action to reaction of the integers by their birth geometrical (Diagram 3), to get out of nature's boil or a hell. By it, $90^\circ \div 2 = 45^\circ$, for the tabled reactions real, must follow for both hemispheres alike as to smoke escapes.

The figures 1234567890 are four times repeated, losing the 8 by ellipse set in. Then follow 12345678, succeeded by 987654320 five times in one line, except that in the last repeat the unit replaces the cypher. The repeats by 3, 6, 9 appear. In that of 6 we have 740 fourteen times in one line, followed by 392 central, and then 923 as many times.

A final example we will give by the square of the twenty-two figures 2 and one unit, or 44° of power for the upper ether, with one rising globule in life inset to burst. The square is—

$$\begin{array}{r} 493827160493827160493772839506172839506172841 \\ \times 9 \\ \hline 4444444444444444444443955555555555555555555569 \\ 9 \\ \hline 39999999999999999999995600000000000000000000121 \end{array}$$

By diagram 3, this integer 9 is the constantly highest multiplier to carry ellipsis at natural selection for ever, and must act at every rotation in its place to values, set. Now, whether by matter endowed to matter, or by mind at just covenant action, how will the neologian scientists and species developers by nature get out of this? There is not a leg for them to stand on.

LIVING FACTORSHIP OR ORGANISATION FOR A CHRONOMETER.

Had astronomy by its state clearly discovered, for any means without direct design in the make, been considered instead of complicated minor agencies, the dream about evolution, or its modern suggestion, could not have had a moment's hold on the mind; the decimal order, fundamental over law, being also admitted, or any other ideal radex for integers.

The study to get up rotation, correctly, at the first order integral for a balance in reactions to action being, at least clearly bound to one root, whether the square by it was found or not.

But it was known by the inquiries of many to be, at least, very close to 22 : 7.

By it, all bodies at natural selection must of necessity rule by Bode's idea of a law in proportion for distances, and under, for solids, (Kepler's third law.) But not only, as Bode put it, in respect to proportions in distances only, but also for the size of the masses carrying them. For, by the rule admitted over all, gravitation, whether by the pressure of a heaven over all to raise the globes to their heat values, as of balloons or rockets in air, or at divine will without it, the proportions must prevent such irregular realisations as now exist even with the asteroids found to fill up between Jupiter and Mars. Venus is admitted to be smaller, and also lighter, than the earth. Mars, which is farther from the sun than either, smaller, and heavier to its diameter than Venus.

Facts innumerable, declared by astronomers, which are utterly inconsistent to natural gravitation alone, such as we see for sinkage and rise in air and water, exist in the known distribution and motion of the planets. Whether a hydrostatic medium be or not, admitted to exist for their rule, gravitation as we see it act is thrown out utterly by the evolutionists. Design, especial, will alone harmonise in Law, Light, and the forces of chemistry must come in to get any universal similarity to practical science at all, and that on settings for axial angles of speciality.

Without a firmament to rule the globes of heaven, to give gravitation its true place, some mightier force than it must exist in the bowels of globes to give to their diameters and densities such eccentrical positions in space. But with a firmamental heaven to rule all against expansive, set heats, the facts are free to rules experimentally found.

Also, by all engineering experience, when two wheels are to work in one unity of association to other parts at equal or regulated different times, the spring of the power in all parts must be proportional, and so find its place to rule all by its degree of power unique to its fitting. But if two different bodies, as two clocks, are to keep at different sizes of all the parts equal, or regulated times to each other, the standard for the time-powers to set each to their parts, must act so as to have the parts together, set for them. The same for propulsive distances made.

This being of time, must all be of a "Will," able to set to this immaterial ruler therein,—mental only. In all, the practical power must be equal to all the mass so united, and be consumed to radiate from a line of receipt one, and main,—for many, by the pressure, over the centre moved, in loss. If man could, as God has, make flying bodies such as balloons, work to supply and receipt from the earth, either by pneumatic, gaseous, or electrical forces, on axes off the perpendicular for the rise, by gravitation to weight by weight and support, by the lightness to air, under an axial angle, by a draft through, then flying bodies in air could as certainly be used by men as is secured, at the designs of Jehovah, in birds, and regulated globe-making would be of their imitations of God also.

In the future papers, these points for the place of chemistry, through the bodies of spheres, will be satisfactorily poised.

THE MULTIPLYING POWER OF THE CUBE.

THIS is one of the six points to seek which the author of the "Curiosities of Literature" said it is folly to attempt.

"Why?" I cannot conceive; for, that eight single cubes of the same size will build into another, so that the form remains geometrically intact, and the diameter exactly doubles practically, the ratio being by integral roots in $2^3 = 8$, I should suppose he must have known well.

If the difficulty was to find a rule for a very direct and easy way to find a root, then it is but a question of school arithmetic, as perseverance in test will always find the exact value. Tables also, on the circuit of the canon, would do the same, by compensation of errors shown, near enough for use.

But as by astronomical facts discovered, and our proofs for the square of the circle in Diagram 4, this form, although not practically admissible in forms, but only for a ruling value over all except in crystals, to be used and set to the mass ratio, proportional in law, and over all others at mental estimate, is of so much import, that we shall herein give it a particular consideration.

By the Diagram 4 we find its mass ratio to a given diameter for its subject is required as of three forms in one united, and the hexagonal inscribed figure shows the unity of the third,—all types to an antitypal truth, most important and sublime.

Alter the mass ratio, and it alters the power to reach to the centre to give the rule of progress by the equilatéral triangle within. Reduce the actual form, and all hope of working an ellipsoid is over by eight lines, equal in superior masses to a crush. The means to a current ellipsoidal action must be found by a power over all,—as of the antitype it is declared,—love of holiness, the rule of Jehovah by essential light of all truth within Himself.

Also, practically, to natural facts. If the cubic figure cannot exist to start law over all, but must fall by the mass to a fluid encircling heaven, how could any cubic figure ever appear at first. But we have seen that, by the rule for growths in masses, ever adding by the power feeding, a full tenth is being secured at the sixth eon or procession.

Then, as by that time, this superior ratio may be set at the especial advantage toward one pole, under elliptical distinctions, so the metallic cubes small, found in the metallurgical catalogue, may become developed at the cooling into crystals of the more especially carrying agents of the magnetic induction of nature's properties, which commands combination as well as fluxation against the whole power of natural gravitation, so as to carry the sympathies of light therein on a rule of especial policy under the setting of every atom of the nucleus. But this only at the use of such over force of light as was said to raise land, or the dry.

These crystals, therefore, prove the graduating action in growths by light to finally attain the full magnetical ratio of a soil deposited geographically, to get a perfect living agency up able to live for ever against the whole earth's forces, for her corporate ratios in universal decomposition at her mass forces,—that is, a soil to make man of. This practical evidence is geologically most important as well as mineralogically, but only by especial design to set it.

The fact that the cubic form must be given up at first, and yet its mass root to work be retained, proves that a spirit essential and immaterial as Mind Eternal and Creative over all matter must first exist to set it going and work by it for all proportions below as His agent for ever.

Revelation as to the eternal future also proves this idea to be perfect in the Revealer. For what is the prepared central residence of Jehovah to be in but a figure cubical in the heavenly Jerusalem;* and the Great Pyramid speaks of this remainder of revealed hope being in some way the object of the builders to perpetuate. But through those claims God set all on Adam, and the spiritual and moral claims for the perfect, by His one only Righteous One for all saved there to rest.

Kepler's three laws together attest this root to be that perfectly, in circulative action for the time-keeping operations of all globes together, as unique to gravitation by the universe.

But gravitation alone, which always tends to rule by, and so settle toward equal lines by the centre, could never make a cube. All scientists now admit this is done by magnetic attraction in minerals, particularly set. Without it all axial angles must settle down. We will now start a table on simplest forces.

Table 1.

Co-equal and co-eternal roots, $1 + 1 + 1 = 3$, *and to find the balance by* 3 *in* 1 *again.*

						3
1st	cubic reach by	2^3	=	8	1st diff.	5
2nd	do.	3^3	=	27	2nd „	19
3rd	do.	4^3	=	64	3rd „	37
4th	do.	5^3	=	125	4th „	61
5th	do.	6^3	=	216	5th „	91
6th	do.	7^3	=	343	6th „	127
7th	do.	8^3	=	512	7th „	169
8th	do.	9^3	=	729	8th „	217
36°	Rotation radex	10^3	=	1000	9th „	271
+9th		=55°	=	3027	Returned balance	1000
=45°						

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* Rev. xxii. 22.

The student here will observe that the first column, numbering the progress of cubes, is at the integral figure, the 8th by addition, 36°, for 360°, or at the integral root of the horizontal circle developments by them,—the 0 belonging to ratios of actual work under those solids. The addition of the second column shows 55°, or 5 over the half in the standard of $10^2 = 100$; and the third column gives the addition in 27, or the cube of 3 in 1,—the primal root rotation, which has 300 besides, or has found its full decimal command at progress, with this for its advantage; and, by the differences added, the full ratio of all together gains, by the three units in unity, the balance full in a decimal standard again. So, as the first column is always a valuer less than the numbers of the second column, we see that the actual start to get a cube, which is the same as any thing, or mass-made, must be in the hand of One able to make it out of nothing. For even a unit globule, one, must have length, breadth, and depth to be a mass or thing made in space at all. So, again, we see that the cubic root must exist in that "made," or nothing will exist at all. So at first, and at once, we add the value attained in full for the first column, as 10^3, over the eight for that of the integral roots, and get $36 + 9 = 45°$,—the radex for all reactions by the full angle over circulations at 360° horizontal of sheer mechanics only.

That all nature must start on the cubic, proportional measure to measure, will appear again in the next table; and that the dual globule must be the ruling reactor for a divisor over all, and so must exist in nature for its work duly set in mass and transmutative values (as our A^3 does), before the unit or normal integer is set at work at all in flow.

Hence, this is included in the Mosaic historical key, by the statement that places the heaven, or firmament, over the earth, first on record, as actually extant in time. So nature could not begin by gravitation aggregating ultimate atoms, as some have supposed. The Heaven all duals must aggregate first.

Table 2.

$$2 : 3 :: 4 : 6$$
$$2^2 : 3^2 :: 4^2 : 6^2 = 36° \times 10 = 360° \text{ or at action.}$$
$$2^3 : 3^3 :: 4^3 : 6^3 = 216 \div 8 = 27 = 3^3.$$

Now, nothing lower than this between proportions can exist. The unit has no first place at all. Although, over all these roots, it may be a multiplier in 11, &c., we cannot make the single unit a divisor any more than a multiplier. In other words, we are taught that light was to be made to work for enlightening an object needing it, not to enlighten itself. It must carry it to others; all darkness without the silver lining of its globules. So we stand for the beginning of creation on the rule of the schoolmaster's book:

"*That similar solids are to one another as the cubes of their diameters.*"

But the example given in the school-book is: If a globe, of which the diameter is six inches, weigh 18 lbs., what will the diameter of a globe of the same metal be which weighs 144 lbs.?

This answer might be at once given on the powers of the masses,—$18 \times 8 = 144$; so $6 \times 2 = 12$.

But if this rules all nature without other aid, how could Mars have a power to resist the solar attraction, not only against collapse in a straight line of attraction by $S^3 + M^3$, but to be less than the earth, and yet able to rise farther from the sun. The asteroids all the same. All, denser than Venus to ether, yet also farther off.

So in nature as in grace. The spirit of circulation or life comes from God, and cries out again therefrom for the means to progress by more light for ever. Without this all turns on dark despair toward Death.

We will now introduce our readers to a Table of progression, by justly engrafted growths to the cubic standard, for the processions, from the value over all of that unit—normal—which must have all its subjects under its root; although, in itself as the power, it cannot appear until its subject is made to operate on; and which subject, at the start in nucleus, must not have one unit or spark of this power. This Table is the one numbered 3 of this part of our subject.

As in all tables of efficiency to follow nature's facts, by types automatical* at use, for matter automatical,—the same—the unit decided on for the carrying value, solid, must be that for order set to rule the nucleus, and remain the standard to all accumulations and fractions by the use of the worker of the arithmetic, at law. Thus, only, can it work to measures, or geometrically for form by form under climate to climate.

The powers of youth to grow, and yet condense the food, is exemplified here, by, say, 64 in the first column at the seventh stage, but found only in second at the fourth, and in the cubic finish of the the ninth, at the third place.

But youth, faster shooting up, is presented in this table at earliest days than by more recent growths. Thus 4096 is not found until the thirteenth stage, or rather, the twelfth of action over the seed in the first column. It is in the seventh in the second column, or sixth of actions. In the last it is at the fourth from the unit.

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* Many inventions have been set at work for an enumerating machine.

So in growth, solidity should go on with height up to puberty, and there condense under acmé attained. We have gone on to the eighteenth value from one as sufficient. These ratios from cube to cube, without fractions, illustrate the rule for the Times, Days, or Eons of the "Evening and Morning" values, but made subject, as we have seen, to the sixth value under circles to circles over their cubic abstract. But leaving the student to consider this Table, we will initiate a most important point by it in another further on.

[THIRD TABLE ON THE CUBE.

THIRD TABLE ON THE CUBE.

The Depth, Cubic, or Proportioning Diameter.	Squares.		Circumference of a Facet.	Circumference of all Facets.		Area of Squares.		The Mass.
1	1 ×	4 =	4 × 6 =	24 ÷	4 =	6 ÷ 6	=	1
2	4 ×	2 =	8 × 6 =	48 ÷	2 =	24 ÷ 3	=	8
4	16	...	16 × 6 =	96	... =	96 ÷ 3 ×	2 =	64
8	64 ÷	2 =	32 × 6 =	192 ×	2 =	384 ÷ 3 ×	4 =	512
16	256 ÷	4 =	64 × 6 =	384 ×	4 =	1,536 ÷ 3 ×	8 =	4,096
32	1,024 ÷	8 =	128 × 6 =	768 ×	8 =	6,144 ÷ 3 ×	16 =	32,768
64	4,096 ÷	16 =	256 × 6 =	1,536 ×	16 =	24,576 ÷ 3 ×	32 =	262,144
128	16,384 ÷	32 =	512 × 6 =	3,072 ×	32 =	98,304 ÷ 3 ×	64 =	2,097,152
256	65,536 ÷	64 =	1,024 × 6 =	6,144 ×	64 =	393,216 ÷ 3 ×	128 =	16,777,216
512	262,144 ÷	128 =	2,048 × 6 =	12,288 ×	128 =	1,572,864 ÷ 3 ×	256 =	134,217,728
1,024	1,048,576 ÷	256 =	4,096 × 6 =	24,576 ×	256 =	6,291,456 ÷ 3 ×	512 =	1,073,741,824
2,048	4,194,304 ÷	512 =	8,192 × 6 =	49,152 ×	512 =	25,165,824 ÷ 3 ×	1,024 =	8,589,934,592
4,096	16,777,216 ÷	1,024 =	16,384 × 6 =	98,304 ×	1,024 =	100,663,296 ÷ 3 ×	2,048 =	68,719,476,736
8,192	67,108,864 ÷	2,048 =	32,768 × 6 =	196,608 ×	2,048 =	402,653,184 ÷ 3 ×	4,096 =	549,755,813,888
16,384	268,435,456 ÷	4,096 =	65,536 × 6 =	393,216 ×	4,096 =	1,610,612,736 ÷ 3 ×	8,192 =	4,398,046,511,104
32,768	1,073,741,824 ÷	8,192 =	131,072 × 6 =	786,432 ×	8,192 =	6,442,450,944 ÷ 3 ×	16,384 =	35,184,372,088,832
65,536	4,294,967,296 ÷	16,384 =	262,144 × 6 =	1,572,864 ×	16,384 =	25,769,803,776 ÷ 3 ×	32,768 =	281,474,976,710,656
131,072	17,179,869,184 ÷	32,768 =	524,288 × 6 =	3,145,728 ×	32,768 =	103,079,215,104 ÷ 3 ×	65,536 =	2,251,799,813,685,248
262,144	68,719,476,736 ÷	65,536 =	1,048,576 × 6 =	6,291,456 ×	65,536 =	412,316,860,416 ÷ 3 ×	131,072 =	18,014,398,509,481,984
1.	2.	3.	4.	5.	6.	7.	8.	9.

1. Multiplies from any first standard unit space-holder holding, square by 2, from one full generation to the next one, full.

2. Carries no ellipse visible for design on the start; but multiplies direct for square to square by diameter on itself, and by 4 down the column from square to square.

3. Starts by ellipse for use in design in other forms, as of multiplication for the power, by 4 to 2 in division for the first three. Then by 2 down column.

4. Found by the last, and by ×2, down the column.

5. At a demand in the power to multiply by 6 from the last column entirely, and by 2 down its own.

6. The power here wanted is in reverse to that of the third column in the start. It reacts by 4 in division for the first reduced by ÷2 in the two next; then multiplies like the third by 2, and doubles on each succession.

7. By the last rule from the fifth column, aud by ×4 on its own successions. But starting on 6 to 1 by the diameter, gives the full ratios of ellipsis for design, on new forms by placement of numbers trigonometrically.

8. Final powers here wanted begin on elliptical readiness seated in numbers for the cube itself, square to square, in growing generations by new masses added through time. Down the column itself, after the first multiplier 2, by ×2, but begins in division to the rights triune, as waiting the power.

9. This column, in addition to its appearance by the last notice, is attained by the second column multiplied by the first, and by 8 down the line, showing the root multiplying power of the cube in its mass to the diameter to be under the integers of 2 and 8, the cube. Or on a base in geometry of a proof in mathematics; integral to a square within, of the circle, safe for the "good" in God, the Designer of all.

The places ... shew the right for the cypher to come in as of the abstract.

EVIDENCE FROM THE POWERS OF THE CUBE TO SHOW THAT THE EARTH WAS MADE STANDARD FOR ALL.

For this purpose we refer to our last Table on the successions direct from a unit in full, on grounds most philosophers have adopted,—that is, that nature must be working on a base in which is the ultimate unit, over which all action and reaction have to proceed, as in making our tables.

But we argue that, for the fractional beginning by automatical operators, this unit must be reserved for the power to carry, and could not exist at all at first in the cooling divisor, much less the subject locomotive. Hence, all must be made in these by previous mental design, as to what that ultimate unit-carrying power in all the forces of exchange shall in the future be.

No man making a machine to be worked by plutonic agencies can want, or be able to fix in his machine, while it is making, a single ultimate unit globule of his future power; neither can they be at use, as in air at his hand, although to make his machine from such heavier nucleus, he needs to bring ultimates into the forging fires.

It is from the nucleus we are tracing all, and air to him will not work, except as it is heavier than his plutonic force of motion, and put under fire by fuel.

So, for ether in the heavenly divisor and the first nucleus of any globe, or other beginning imagined, the ultimate unit could not be. It comes to both. So, for its measure and forces, all other parts for it made must have had a scale; as we use one for our rule, which hence only existed in a mind; yet, which was ordained to be God's covenant rule for ever,—immaculate unchanging light as to the physical value in a single globule.

Both Herschell and Professor Lynn, of the Greenwich Observatory, held that the earth's diameter is 7912 miles. I find, by a totally different process, herein described, to theirs, the same.

Also, by our diagrams, we find 7 for the lever, and 14 for the diameter, are the standards to find the squares of action to reaction * in the rotations, as the first pure and true motion, to test the regulation of the order by. And three rotations to the diameter is the standard for the circle in orbital powers round its equal. Also, in the Bible, these three fourteens are made of import in the generations of the Lord Jesus Christ.

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* If action is not admitted to be of a fall together for work by gravitation so called, then reaction cannot be in any case of the same cause alone. Reaction is resistance to action, and so its cause must be formed on differences.

Now Table 3, of our last paper, shows us that the full ratio from a unit for gravitational growths, to present this standard progress in one body only, brings the diameter, certainly, at some point in time, to 8192 miles; and this is, also, the fourteenth. This for the earth could only be by the mass proportions of the sphere. But the earth was not designed to show this to man by her own action alone, but between the three globes, balanced to present the standard distance between them,—*i.e.*, by the ellipses, as that separate rate settled between the Sun and Moon, to regulate her day and night, as intimated in the Mosaic fourth day, then all the other globes to establish it in perfect regularity were, as required, added.

Now, we have shown that the ultimate unit must not exist in the first nucleus at all, much less gravitation make the first globe at a rate of its accumulations of them, and hence, we must justly expect that all our tracings for the earth will prove, that it was from the "unformed," or on a fractional part, her nucleus was designed, so as to allow on the variation, room for the action to reaction of the Sun and Moon over her to come in.

To secure this most important point, we give a full Table (No. 4), to show it.

But we have to reverse the order of calculation, and start, at once, by diameter 7912 miles; and no astronomers now assume it can be, for the earth, 8192 miles.

In this Table 4, we proceed by thirteen subdivisions at eight,—the prime cubic mass ruler integral, which with the nucleus 7912, at *per contra*, gives the full circle of exposition on fourteen powers or values.

At this stage we find the following degrees:—

Diameter $\div \frac{1}{8192}$ or $\div 2^{13}$ over 7912 gives $0, \frac{989}{1024}$ it decreasing at halves on to 8^{13} over the mass. The mass divisor has increased to $\frac{1}{549755813888}$. And the mass is, then, at $0, \frac{483680835}{536870912}$. This is the absolute value to a salt of light, or is less than a unit of light, on which ratio the earth started at the first fraction of that power found. And this is in contrast to the value by the third column of this Table, and the same stage of Table 3; or already passing the reduction from a unit, actual, taken in Table 3, so the reduction, or addition from, or to, the ultimate unit as a base could never be, or ever become, that for the earth.

No such fractions could appear by 8192 miles if we had started by it in reverse also.

So true science tells us, even if Revelation had not, that the earth started on the "unformed" in all respects.

What is her loss from 8192 by 7912? It is 280. Our square for a standard, also, with Table 3, gives us its paternal rule over circle roots, proportional, $70 \times 8 = 560$ (Diagram 4). This, divided by two, to show the loss on proportional agencies in one body for action and reaction, as of life introduced,—*i.e.*, between the hemispheres thereof, —gives $560 \div 2 = 280$. So the proportion provided is true to the command by the root ruler over all, at Jehovah's wisdom and hand.

The earth was, then, clearly made true to the standard for a primal female—mother to all,* and her susceptibility is of fractionally refining sympathies under light, for her thirst and operations thereby.

Also, we have her preparation for the sun to come in, as the light condenser, also after her, on evidence.

Her axial angle for her orbital power must respond to this office,— $90 \div 2 = 45°$ mechanical in division to leave the perpendicular equal in heat to cold; $45° \div 2 = 22\frac{1}{2}°$ for the rule of the thermal forces over the solid mechanical, as of refinement. The earth has 23° 27′ for her close approach to this standard, but to allow room off it for the sun at 20′ over 7°, the lowest standard to get three rotations to a revolution on the geometrical base; the moon, not having three rotations, but side weighted for equality in times on less than two degrees, for her axial angle. Now the earth's mass is $7912^3 = 495289174528$ miles square. Subtract this from 549755813888, the fourteenth power of the unit by thirteen actions (Table 3, standard), and we have 54466639360.

Now, we shall find the earth's orbital power by light, which first overcomes her fixation in rest by her own dead weight, and that of the firmamental ether over her,—in the rotation time, to give the reactionary value also, for her orbit in 546992327 miles, which is a decimal foreshortening, by magnetical reactions within, at the impact of the ethereal heaven without, on her line of motion through that body, which gives the third law of Kepler by the rise power, or distance, from the main centre of attraction.

Before we proceed further, we will test our calculations by $7 \times 2^{10} = 7168$.

495289174528 : 549755813888 : : 7168 : 7956
483680835 : 536870912 : : 7168 : 7956
9009320 : 1000000 : : 7168 : 7956

Further, on standards found.† If we go up the second column, we have the value (Table 4) by the third change, $7\frac{93}{128}$, for the diameter. This, downward, is the tenth by forces of change. The mass, here, is $461\frac{287299}{1048576}$, and by its full result, in division of eight, without the fifth column of imputed loss in fall of the unit, is 461·294192660.

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* Nevertheless, men need not worship this mere creature, or the rules set over all, called those of her nature, instead of God her Creator—Lord over all.

† See Table 4, at end of this subject.

The nearest cube to 461 is $7^3 = 343$, and $2^{10} = 1024$, which × 7 = 7168. Also, $1024 \div 128 = 8$, and $8 \times 93 = 744$. So, $7168 + 744 = 7912$.

Now, downward from 7912, we have the diameter, by the third action, reduced to 989, which is the value ruling the fraction of a unit, final in 0, $\frac{989}{1024}$ for her. So $2^{10} = 1024 : 989 :: 8192 : 7912$, or $989 \times 8 = 7912$. Here the earth is seen set for reactions by the fixation of it in the centre of the body by hemisphere against hemisphere, as bodily rotation must work under thirds, sevenths, and tenths.*

By Tables 461·29 log,—$2{\cdot}6639740 \div 3 = 0{\cdot}8879913$. The number for this is $7{\cdot}7266 \times 1024 = 7912{\cdot}0384$. The fraction here gives the error of the Tables.

Our next question is,—Can we, on this data for the reactionary variation that all globes must have on the difference set in their bodies to a unit of light, or ultimate, for the abstract ratios, find any witness that the earth's variation will tell of the inset value on time powers, by the forces for her rotation by time observed, to the number, by the orbit?—so, further, to prove her the standard at divine design?

Again, as the rotation has to overcome the additional fixative-pressure all round her, of the upper ether, and now her own air also, as well as her dead weight, by 7912 miles diameter for her mass,—can we prove her standard place, and with it, that the ethereal heaven and her own home-surrounding free heaven (unfixed, as both are, except in weight to her body), must both enter her bowels, with light the power, as air is known to at the vertical vortex fire makes to move a locomotive,—so that the earth drinks in all the breaths of lives will be proved, and that they must vitalise all her bowels to the centre; and so, all false poisonous gases man makes by the perversion of nature's laws must go in also? We will go in for it.

· *From Table* 4.

Standard Mass and Divisor.		Earth's Mass.	
549755813888	:	495289174528	: :
Test Value by Table.			
$3690\frac{25155}{181072}$	:	3324·238729832696.	

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* And we have seen by Diagram 3, that thirds over masses, at the sphere proportional to the solid cube must work to get the 0 for 10ths, and so has to go on to it for Physics to act by.

Testing the value of the fraction to a day on seconds, by a mile of the mass, we have
549755813888 : 238729832696 : : 86164″ (a day) : 37416″
3690·00000 − 3324·37416 = 365, and a fraction over.

Thus our principle stands, that the rotative force light gives, aided by air and ether under its attraction on them to carry all in together, is like the mechanical action of rifled grooves on a ball balanced to the force for the distance and speed.

We will glance at these points of law over the moon. We take her diameter at 2156 miles. Professor Lynn gives 2160. The difference is but light, and of no import here. Her mass is, then, 10021812416 square miles.

By a similar system of reduction to Table 4, we find that she gets to be only on a fraction of a unit, at the twelfth status. The rise and fall over a circle by points in chords to arcs is virtually the same. In the spheroid it acts on that root.

For the sun's mass to be so reduced it takes 10 × 2, or twenty such divisions by 2, as his diameter. So for the first value to be reckoned in, it is of 7 × 3 = 21 perfect on 7ths.

The earth, we have seen by Table 4, at the fourth and sixth columns, comes to $0,\frac{483680835}{536870912}$, and the standard, integral, in full, 987654321 ÷ 2 = 493827160,1.

Also, to show how the earth, had she the setting of the integral hemispherical values from the full of the integers, must work at returns of the mere boil, or of terms to terms integral for ever.

From Table 4.

$$\begin{aligned}493827160{\cdot}5 \times 9 &= 4444444444{\cdot}5\\ 6 &= 2962962963{\cdot}0\\ 3 &= 1481481481{\cdot}5\\ \times 25155 &= 12422222222377{\cdot}5\end{aligned}$$

In the last column of Table 4, I have carried the calculation out for the not only non-annihilativeness,* justly admitted for all matters, but have set it as philosophers never have,—that is, to show that if the units of light thrown off from all globes into ether, do not, as the fifth column is intended to present, become burst globules, which have received over-heat in the bowels to that normal ratio preserving from bursting in ethereal pressures,—and so heat dies out, to become latent in them only,—then, what a suffocation to cloud the upper ethereal blue for returns to blackness, in darkness of gases, accumulating, there would be. Hence cometic matter (although brilliant at the solar light on them by reflection) could only exist, by error, somewhere in a globe or globes, set in. We may judge by home conditions of poisonous gases a plenty to life, who by. Thus, every sparkle of a star's light is the issue for a renewal of fertility at home in progress.

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* This non-annihilativeness is, however, only because he who works a ledger wants the whole done in time, right or wrong, to appear; not because the maker of matter cannot annihilate it. It is of the covenant declared.

The silver lining for light to vision comes with the globules of the power, and is hidden like that in Gideon's lamps until they are broken.

But the table of calculations shows this, that the light new for ever required from Jehovah's bosom must be a multiplier, equal as matter, to the mass in the draft of its weight: and that it should not do harm by being too much on that draft, as extant matter anywhere must be made new out of nothing at all.* If once made, it is subject to sure action at law directly.

By the action of the earth's mass to the perpendicular standard, whence we found power for 365 days and a fraction of time over,—as the moon is the cold balance-orb to these life proportions under solar beams for the spring, of the earth's actions it also indicates with the fraction of time over the moon's final setting for her rotations, and equal revolutions over the earth's year, as from rest to the starting point in space again, that our rules are correct. The birth for the first value makes the reach for fourteenth action for life. In respect to the sun's mass by ÷ 8 becoming at its fraction to a unit at the twenty-first epoch, we shall yet find that his diameter and orbit is set on decimal differences very closely on currents to the earth's; and if there is an influx of heat force to get a wave at all, so there must be an efflux in the other direction,—that is heavenward and northward, as the Gulf Stream shows in prominence.

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* See Job, xxvi. 7.

[FOURTH TABLE ON THE CUBE.

FOURTH TABLE ON THE CUBE.

THE EARTH'S MASS, PER EXAMPLE.

1.	2.	3.	4.	5.	6.	7.
Diameter.	Diameter in Miles.	Divisors of Mass by 2.	Mass.	Salt of Light.	Fractions of Salts as Gases if not precipitated.	Witnesses to Cometic Formation by error in one unit of Light by use.
$A^3=1$	7912	$1 =$	495289174528			
		$\frac{1}{2}$	247644587264			
		$\frac{1}{4}$	123822293632			
$\frac{1}{2}$	3956	$\frac{1}{8} =$	61911146816			
		$\frac{1}{16}$	30955573408			
		$\frac{1}{32}$	15477786704			
$\frac{1}{4}$	1978	$\frac{1}{64} =$	7738893352			
		$\frac{1}{128}$	3869446676			
		$\frac{1}{256}$	1934723338			
$\frac{1}{8}$	989	$\frac{1}{512} =$	967361669			000000000000000000000000000
		$\frac{1}{1024}$	483680834,	1	1	50
		$\frac{1}{2048}$	241840417		$\frac{1}{2}$	250
$\frac{1}{16}$	$494\frac{1}{2}$	$\frac{1}{4096} =$	120920208,	1	$\frac{3}{4}$	6250
		$\frac{1}{8192}$	60460104		$\frac{3}{8}$	31250

		$\frac{1}{16384}$	30230052		$\frac{3}{16}$	156250
$\frac{1}{32}$	$2471\frac{1}{4}$	$\frac{1}{32768} =$	15115026		$\frac{3}{32}$	0781250
			7557513		$\frac{3}{64}$	03906250
			3778756,	1	$\frac{67}{128}$	519531250
$\frac{1}{64}$	$123\frac{5}{8}$	$\frac{1}{262144} =$	1889378		$\frac{67}{256}$	2597656250
			944689		$\frac{67}{512}$	12988281250
			472344,	1	$\frac{579}{1024}$	564941406250
$\frac{1}{128}$	$61\frac{13}{16}$	$\frac{1}{2097152} =$	236172		$\frac{579}{2048}$	2824707031250
			118086		$\frac{579}{4096}$	14123535156250
			59043		$\frac{579}{8192}$	070617675781250
$\frac{1}{256}$	$30\frac{29}{32}$	$\frac{1}{16777216} =$	29521,	1	$\frac{8771}{16384}$	5353088378906250
			14760,	1	$\frac{25155}{32768}$	7676544189453l250
			7380		$\frac{25155}{65536}$	383827209472656250
$\frac{1}{512}$	$16\frac{29}{64}$	$\frac{1}{134217728} =$	3690		$\frac{25155}{131072}$	1919136047363281250
			1845		$\frac{25155}{262144}$	09595680236816406250
			922,	1	$\frac{287299}{524288}$	547978401184082031250
$\frac{1}{1024}$	$7\frac{93}{128}$	$\frac{1}{1073741824} =$	461		$\frac{287299}{1048576}$	2739892005820410156250
			230		$\frac{1385875}{2097152}$	63699460029102050781250
			115		$\frac{1335875}{4194304}$	318497300145010253906250
$\frac{1}{2048}$	$3\frac{221}{256}$	$\frac{1}{8589934592} =$	57,	1	$\frac{5530179}{8388608}$	6592486500725051269531250
			28,	1	$\frac{13918787}{16777216}$	82962432503625256347656250
			14		$\frac{13918787}{33554432}$	414812162518126281738281250
$\frac{1}{4096}$	$1\frac{477}{512}$	$\frac{1}{68719476736} =$	7		$\frac{13918787}{67108864}$	2074560812590631408691406250
		$\frac{1}{137438953472}$	3,	1	$\frac{81027651}{134217728}$	60372804062953157043457031250
		$\frac{1}{274877906944}$	1,	1	$\frac{215245379}{268435456}$	801864020314765785217285156250
A $\frac{1}{8192}$	$0,\frac{989}{1024}$	$\frac{1}{549755813888} =$	$0,\frac{483680835}{536870912}$,	1	$\frac{483680835}{536870912}$	9009320101573828926086425781250

THE MASS AND SURFACE OF A SPHERE.

To find this for a sphere is to do it for the proportional spheroid, be the axial angle what it may.

But if we are to admit the different effects of the metallic ratios between their greater action in gathering together and acting to split also the parts of the land, a very different result will follow for the area in proportion to that of the ocean than is generally admitted. It must not be taken for area as the crow flies.

But for the superior cohesive value in land, it could not exist above its bed. And for extra matter to throw it up by awakened violence in the bowels—as oil thrown into a locomotive fire effects, even to bursting—no land could appear at all. Then, as the force to raise the land must exist over its beds, to pump up the pulp to cool, so the interior heats must be mediated at wise degrees; and carrying the equal ratio for that sinking body—the ocean—which more rapidly radiates the heat to fall, can equally divide the full area on the root, that the magnetical sympathies and antipathies are equal as a whole in both; and so the land at its uneven values equals the area of the ocean-bed under the same root, that the angle of the axis to the equatorial and polar perpendicular work, to give the cooling and heating degrees, to raise the land above the seas.

But we shall estimate it now for the mode, subject to the usual one-third of the earth's area, as scholars have done; first of all, in Bruce's Geography, we have: "The earth's diameter is 7958 miles, and its surface contains 198,956,786 miles, more than two-thirds of which is covered with water." To get this the diameter is × 3·1416. Professor Dick evidently used the same ratio.

How such a rule was ever suggested I cannot conceive.

By our previous tables, the masses of solid cubes are to be easily found on a certainty, as all admit. Why not for the sphere?

If a solid cube sunk at its points, eight—equally—to set from units of density (as a mean value) into a sphere, the actual surface would be at a fall one place to an equal rise at another, the same. And so the diameter would be for the same surface, by the new diameter of this sphere to the old one of the cube.

Then, if a sphere sunk at its side points, six — north, south, east, west, top and bottom being also two, the cube it would develop must bring out the edges of the sides to get the eight points, in the same value for an area; so that the diameter would be the same, as if we use a piece of circular cord, and draw it into a square, — the circle being by the new figure as a square of four equal parts of the previous circumference at $\div 4$.

Hence, this gives the means to get on the proportional ratio to a cube of the sphere's own mass—the area it has as a sphere,—it being then, the same.

The reduction to get this, is at the exact law of weight to measure.

By Diagram 4 in proof, on the solid cube, by 140 diameter, $140 \times 4 = 560$,—the circumference for a rise and fall of equal ratios into a sphere.

$22 : 7 :: 560 : 178\frac{4}{22}$, the diameter new. Area remaining the same.

Area of a cube at 140 diameter $= 140^2 \times 6 = 117600$.

For the polygon and sphere at 70 radius—diameter of the latter—we have: $140 \times 3\frac{1}{7} \div 4 = 110$. Then $110^2 \times 6 = 726000$, the area of the sphere.

$70 \times 6 = 420 \div 4 = 105$. So $105^2 \times 6 = 66150$ for the hexagonal polygon in area or surface entire.

By the astronomer's mode, we have for the sphere $140^2 \times 3{\cdot}1416 = 61575{\cdot}3600$, which is less than that of the minor figure.

On our principles, we can proceed to attain to the earth's area, mean.

Diameter $7912 \times 3\frac{1}{7} = 24866\frac{2}{7}$. The circumference $24866 \div 4 = 6216{\cdot}2$,—the new diameter, by collapse to a cubic crystal. We drop the fraction; $6216^2 \times 6 = 231831936$ square miles for her surface at a plain level.

By the astronomer's method, we have only $7912^2 \times 3{\cdot}1416 = 196663355{\cdot}7504$ miles. This is a loss, at once, of 35168581 miles square.

Now, one-third of the square miles we have found, to get the land at the ocean level value only, is 77277312 square miles, or a greater foothold for man in 11722857 miles.

But this, as it only gives the oceanic level rate, must certainly be immensely added to, for the actual surface between the mountain heights, the elevated plains, all valleys, chasms above the surface, and other irregularities adding to the surface solid.

But if the axial angle gives us 23° 20′ for the earth's ecliptic; as this to stick together by magnetical attraction must raise not only the different degrees of land by the northern preference, and eastward for the greater masses of land in each hemisphere, but also carry the higher antipathetical variations to these sympathies, amidst the land masses to cause the splits, and all variations of level, I apprehend that the actual area is on a par with that of the ocean, which is the sinking agent to that land irruption to rise and fix. For the ocean, as of equal values of self in the magnetical feature, is at a level by equal radiation of heat, and so sets a standard not only for the quantity of the land raised under hydraulic pressure, but also the quantity of the surface area by the division of the magnetical forces first required to get the land to stick to resist a fall again, and then to cause, by the reaction therein, an equal surface to itself thereby.

Hence, on this scale the goodness of Jehovah provided man for his foot in Eden's safety and beauty, with 231831936 ÷ 2 = 115915968 square miles of solid land surfaceward.

How little has His skill and kindness been owned for the emigrant foot and plough, although all be not of fertile soil, but some of stony ground, like many minds as to receiving truth.

THE TRISECTION OF THE HEMISPHERICAL ARC BY DOUBLE INTENSION.

Already, by Diagram No. 3, this is effected at a single base; but as I found in that curious work, "Upton's Physioglyphies," a statement that it is yet an unsolved problem to trisect any minor arc, it is requisite, first, to lay the foundation—to accomplish it on the root of geometrical proportion.

So we proceed to the present point by Diagram 5.

By a point C, and by radius CE, on AB, a base line, draw the semicircle AEB to be trisected.

Find the centre of CE radius in the point S, and by SE, radius, minor, draw the circle, CE diameter, inscribed to the arc AEB. This, by the rule that circles are equal to the squares of their diameters, is the equal to the half-circle, AEB.

Extend CE, and thereon draw from E, other two circles equal to that by CE radius; this gives the distance by their united diameters from C, CF.

By extensions of the base AB, and by CF radius, draw a major hemisphere, GFH. The two hemispheres are now proportional, as of three minors to one major, by circles to circles on their radii.

Then, by the same mode adopted in Fig. 3, to get the integers of action to reaction in spherics, we proceed to bisect twice more the parts of the hemisphere GFH, CF having done it once already; and along the points on GH mark the numerals 123456789—0, or the cypher at growths.

As in Fig. 3, join the points LL, of the lowest value found, and parallel to AB, of the major hemisphere GFH. This crosses the perpendicular radius CF in X, and, as in Fig. 3, it finds the point to trisect by circles to circles CF.

Trisect the hemisphere GFH, by chords equal to CF; and connect the points ZZ, where they meet by a line parallel to AB. The figure ZZ37 is a perfect square by parallel rules at draft and measure, and the three equilateral triangles appear by straight lines from C to Z and Z, as in Fig. 3.

By CE, distance, make the similar division of the hemisphere AEB. These three chords are found parallel to the major ones, one to another one.

By SE, radius, draw the three circles equal to the one already inscribed to AEB, the semicircle to be trisected, which shall have the three minor chords, A0, 00, OB, for their diameters, and by the same, GZ, one of the chords major.

Then, GZ being equal to ZZ and ZH, there will be nine of these minor circles and their diameters over the major chords to arcs of GFH, to three in one rule over the minor hemisphere AEB, at $3 \times 3 = 9$ on successions to get the rules of spherical extensions as before proved by the points of division in Figs. 3 and 4, for the equatorial points at integral rights of change. Also, the nine on the circle appearing in full, to nine points on the equatorial axis, proves the necessity for all law to be at work with its forces of extension, heated; or made to reach to react by the centre; or the decimal order would be thrown out, except by hemispheres, each to nine, by the axes in opposition to each other over the power, by their pressures over Food so expanded.

From C, by the chord GZ, where its central circle, minor, cuts the last perpendicular of bisecting lines to GH or 2L—draw the line CN and its relative the other side.

Then, again, the angles GCZ and its other two equals are of 60 degrees, and these lines divide them into 30°, at the same values at draft for each.

Also, as all the divisions of these parts are proportional by three to nine, by three co-equal, but distinct circles, first on CF—we have a root for the action on the proportions required to trisect any angle, as this is done for the circle by measuring the depth of the arc, semi-circular, AEB, on two extensions of its diameter to get the second proportioning arc, semi-circular, or of the heaven above, in G, F, H, for the trisecting circle XF diameter, by its depth. We will proceed for the lesser arc.

THE TRISECTION OF ANY ARC LESS THAN THE SEMICIRCLE.

Up to this time, I believe, this point is unattained by geometers.

Our scale of numbers is, here, the same for CE radius, to DED, by radius equal to CE in the last diagram, for the proportioning root,—that is, 70. So, the scale is provided for any mode of test the mathematicians choose to use by their school systems.

Of the hemisphere DED, we select AEB for the arc to be trisected. EV is its depth on EC. We draw through the point V the base of the arc, AEB, by a line parallel to DD. This is the base chord to the arc to be trisected. It is AB. Again, proportionally.

Extending the perpendicular radius CE, and the base line DD, we find the third distance from V, the depth of the chord for the arc AEB, as EV, over the perpendicular extensions of CE. They reach to F. And by CF radius, draw the semicircle GFH.

Also, we find the centre of the depth EV in S, and by SE, radius, draw the inscribed circle to this section of a circle AGB; and along VF measure our new distance VF for the semicircle of proportions by CF radius on GCH for GFH, its contraction.

Now, the focus is in AEB now more contracted than in DED, the semicircle in full to AEB, in the proportion of the less depth of the arc, to get the contraction of the upper circle, or heaven, at rule over it, for the proportion to trisect the arc; and on the rule that circles are by the squares of their diameters, so it follows the arcs thereof to their depths as parts thereof all follow suit from Fig. 5.

Then, as in the last problem, and over the base line in Fig. 3, trisect twice more the new distance GH, which, also, forms a new base proportional in its contraction, by the three depths minor of CF to what it is in Fig. 3, or less in Fig. 6 to what it would be by DED, had the hemisphere been the arc to be trisected; and by the contracted points along GCH, all proportionately and equally contracted by EV to EC, we again place our numerals 123456789 — 0.

Also, we draw the new chords GZ, ZZ, ZH that trisect the hemisphere GFH into equal parts, all of which were contracted, or less to their proportions by EV, the depth the arc AEB has, less, to that of DED the hemisphere, of which it is a part, or as in Fig. 5.

So, by the line LL parallel to GH and AB, the two bases major and minor, and this for reactions by depths by one axis to lengths of the other, the new point *x*, is found for F*x*, the trisecting distance to equally divide the arc AEB, as by F*x* in Fig. 5 the same.

This distance for the three chords doing it is reduced from what it would be by EC, the depth of the semicircle to which the arc to be trisected belongs, on the root of their due and relative values, to secure the contractions, or extensions, of the ruling circle heavenward over them on proportional rights.

So we, as before, draw the lines by Fx distance, as chords to the arc at EB, and their circles, of which they are diameters; and Fx equally trisects the arc AEB, which was to be done proportionally.

The hemispherical value, by a centre to rule all, is again attested. The line Fx will also, on proof, trisect the chords GZ, ZZ, ZH, which trisect the hemisphere, found, GFH also. But the circle highest from V, equal to VC diameter, by 3VE to be VF, is now less than the trisecting circles on AZB, under Fx diameter, and the lines from C radiating through the points of touch; and its half where the trisecting circles cut the chords in DED, do not run through, as in Fig. 5, the centre and extreme points of GZ; but all is thrown into ellipsis. This proves that the upper ether must contract to the mass changes of the bodies it has to govern. All the changes here are proportional to the arc AEB as it is less than a semicircle, and yet work decimally always.

THE HEART, OR LIFE ORGANICAL BOILER VALVE.

If words carried to each mind their true meaning, organical is synonymous with prepared at design, or there can be no true heart.

But for our initiatory evidence as to the means to avoid the boil, by natural agents in their settings, for the properties to work it, it would be useless to attempt this point.

Comparative anatomy has attained to evidence, proving that all the limbs must be geometrically proportionate; and pathological study has proved that this depends on the nucleus being fitted to the operations in the properties of the food, to preserve the same states in life, magnetically from a sheer boil by a true heart.

In our present study of the above point, we have to find the mean value from the drastic forces of law, abstract, while considering the actual use for hemispherically laid differences.

Even in the design for the current columns of pounds, shillings, and pence to farthings, the heart valve is virtually initiated although carried on only by the mind. By a machine it must exist for the line of the first issues, to spread afterwards,—a throttle. We shall use Diagram 7.

DE is our base line, for the organism to show the action of the upper ethereal proportion; and what exactitude is required from first to last, for it to be kept at. Now, unless we adopt a line northern and eastern, or some other between the two axes, for the line of magnetical conduction in preference, by its internal laying, we could never get anything like the animal heart to pulsate by upper pressure variation at all. So we take the point A of the axis AB, for the line of preference. Then, even after this choice, which will, by projection within, make the head, north, &c., we shall only have an equal-sided heart, although we get a top to open, and a bottom to plunge by its resistance the blood upward. But this we must submit to, to get the first ratios in proof.

By DE, our base, draw *in extenso* a perpendicular, and on C the centre of DE, and draw the circle, by CA, radius, DAEB.

By three distances of CA (say 70 by any scale) measure off on the axis CA extended from C, for the point F; and by CF radius, draw the semicircle HFH, for the ruling pressure of a northern hemisphere subject, as all ethereal volumes are (air, for instance), to the mass value nearest attracting, and by mass preponderatingly. This gives us the right to proceed to get at least the head, or open line of the heart, to that closed.

Then, as for Figures 3, 4, 5, and 6, we divide the line of the nucleus body, AEBD, equatorially, by the three bisections through, as before. But, on the principle of the new right acquired, to get out of the double boil at constancy only, with one side to the power, light—for the fire resources—we divide the half of the equatorial line by these bisections to get the ultimate integer of the single line for heat at nine to one outside, as of a body increasing heat centrally, by fitness organised, for a rotation of the body, and so to keep it. Now, to get this northward outflow of heat, the whole of the internal properties, magnetical, must be set-in, especially by a higher force *versus* the dead-weight equal value of each part; and, therefore, so that gravitation could not so settle them for a first globe, or have any rule between the two properties to do it accurately, to get up an organical reactor. For we all know, boil the boiling-pot as long as you will, by any chaotic settlement whatever, and a chaos it remains, Darwinian, or of natural selection at its best. So for a heart there must be an ecliptic angle.

By our double division, we can find some of the advantages for the upright form, human, in principle, to that of the serpent's lying condition,—on progress for the use of the maker.

By the primal set of divisions over DE, and by the first three bisections, Ax^2 (AV, Fig. 4) is the trisecting force found; and if the two equal lines of radiation by pressure from C, are for any elliptical advantage over the sides, without another of from east to west, also, and found by lines, from C, through the extreme points of the line SXS, then, that fails; and simply the universal boil of equal reaction over both hemispheres follows, and ignores rotation of the whole body, before the power utterly.

But, on the resources by an ellipsoid, at true settings for two points of the compass in advantage, it holds a place in regard to the liberties of exchanges, the designer of each locomotive creation may be fitted to. But, by our rights, organical, for true rotation, we get the heat at radiations as low as the line Jx^3J, which is coming nearly to the flat of DCE, for the serpent's crawl; and yet, power to coil and look upward, and with the intermediatory one Lx^2L, it remains. And as the minute section below A, not marked with letters, belongs to the least depth for the possible angle of reactions, to the depth Jx^3J—when the constant current of light, the ingrafter of the magnetical ratios, for the bowels and soils thrown up, has, by crystals of light falling, become perfected, to be equal to the full reactions for a constant full nepos decimal, the resources of power over the heart allows for valves to suit, the most perfect organisms possible; and, also, perfect for life eternal, so that in the mother globes growth may be secured for mother earth, and man by her.

Now, by the points of these three lines, parallel to DE, we draw the lines from C to the heaven over them, in HFH to NMO.

By placing one leg of the compasses on these lines, where they reach the upper heaven HFH; and the other leg where that heaven, in weight, or JLS first touches these lines on the other circle, or globe's surface; we can find, that each will give to each outer point of main pressures, by north over south, and east to west, of assumed divisions of superiority for conductions—the heart-valve first form,—and as these root forces have the increase of variety, not only by the depth Jx^3J; but in an actual ellipsoid, to the degree of the exchanges over the hemispheres for the axial angle; the system must admit of this lower difference than $x^3 2C$, for the serpent-like crawl,—so that for the sharp angle of rotation, to get the acute one of the upright approached in the gorilla, according as the exudations of masses from the centre become impregnated to rise, as soils of the magnetical forces in value. But all must stoop forward even then. This is at a designed growing value, magnetical in time, by depositions of burst globules of light, and would then allow of all the variations in gain, and requisite extinctions of species found by the geologists.

But unless the east to west difference be made, the angle of rotation could not be complete at all; as, even now, our open heart, made, is at equal ratios to the side powers for a boil only, to follow, and turn the point heaviest, A, towards the point of receipt of the power—

be it coming whence it may, to attract gravitationally, and magnetically at once on equal sides, such as we never do see a heart has.

Also, if the throw of the globe itself as the mother mass, ruling the line of action in gravitation, to settle the cooling solids for their line of standing, from that of the line equatorial, must have a root in the direction by the magnetical setting for a solid; so, all bodies made, even at the hand of God, on the covenant rule inferred by the words, "Let the earth bring forth," and, "Let the waters bring forth;"—*i.e.*, to the climatic settings of soils along the axis longitudinally, used latitudinally; then, all animals must be thrown toward the serpent's lying direction, of the head toward the earth, by the heart, so throwing up the blood to coil, to form the heavier solids at the same line of rotation of the forces. To get to the pure upright would be into the boil. Hence, although subject to the rule, finally—of the earth's rotations to light and climate,—man, whose axial setting is leaning backward to this kind of forces, must have been, as the Bible says, made on especial *sui-generis* conditions, as his lean is upward by magnetical forces of superiority, to that angle forward—*i.e.*, to especiality as a ruling subject, to look up toward Jehovah's throne above. It could be set the superior to death by the earth's boiling forces as to the perfect good.

Hence the soils for his angle could not in the least degree be used under any just conception of progress by natural selection; although, needing to be formed of a soil and setting, as in place and climate, the axial angles of the earth had thrown up, at an especial point, for the deposition of the most magnetically impregnated conditions, to be fitted to action and reaction as the earth herself was; or fit for eternal life at first, or at acmé Edenical. So, the higher soils by the higher deposits by ellipse would suit and exist, but the new form not be possible, except by especial make.

COINAGE OF GOLD AND SYMMETRICAL ARMS.

In our recent studies we have proved that, to get up bodily rotation, elliptic ratios of power, from side to side, must be arranged for; although, by reaction in full, they remain radically equal to the action as true ellipsoids.

But even this will not secure any other variations of the side expansions, than exactly according to these variations for a settled ellipsoid in mud, water, air, and ether, at the setting to the working of the power.

Now, this state was absolutely requisite after rotation begun, for the chemical development of the second era, for a true, equalised atmosphere of air to be provided between the three component conditions at work,—light, ether, and the subject sphere.

Yet all changes, now, of germs, develop their limbs as the gestative process proceeds, and to be moveable. How can this be, except, first, the seed-nucleus is so composed in the setting of its associations, that, at certain times, the magnetical and natural forces become at equation, new, for a new change of antagonism, on their previous successes by the power, or food?

Then, the master watches the process, if he only—to get Bessemer steel from iron—knows the time is reached for him to arrange means to the next desired state, or ruin must, to the covenant of integral law, occur. Now, this must be in the seed at once. So, whether for a solid axis with mountain chains from an axis of solidest muds, or for the golden wings of birds, and the perfect symmetry of the human bosom, arm, and leg, the nucleus must be exactly set off the boil-preparation of natural selection.

It is a fact of all experiment on pure science.

It is not, then, a mere question of the laying the nucleus, so that an angle of the axis shall occur, as in our pounds to shillings, &c., for offsets from a minor body to its next in the columns; but it must be by the careful selection and compilation of every atom, that these changes can be effected, or growth and progress, by fitted food, under design, at magnetical powers against gravitational ones.

Is it not—as far as man can copy nature's wonderfully developed state at the hand of the Great Maker—for all locomotives of fitness to bear fire, steam, and burning its own smoke, &c., the same?

The angle of the axis of rotation ordained to keep it up, must, also, be prepared for; while all the matter must be peculiarly fitted to develop each change wanted at gestation, as each reaches the preparatory points of progressive acmé, to get to the final one over all,—"the perfect."

Now, all we can do is, with numbers, to show what the action will be for wings and arms; the most perfect limbs of the bodies, animal, after each body has secured to it, also, the more simple developments from head to foot; although the split for legs comes in with the arms to match as closely as possible.

We will give a setting most simple to light itself:—$111111111^2 = 12345678987654321$.

Here, the wing forms from the 9 are of natural selection primal to numbers at use. There is no such difference as to the right arm and the left.

Increase the power when the body has so attained, $1111111111^2 = 1234567900987654321$.

Here we gain the difference. But how associated?

The circle by figures three, at the mere birth of changes by the centre, has only swelled the body to fix the wings to expansive forces on a cavern—*i.e.*, heat throwing the masses apart within the body to each point,—the side ellipsis still existing.

Will wings and arms of motive forces bear this stamp of connection for the sources to band on? No!

Then, what will suit the setting for a standard globe; for all its more primal progressions in time cannot suit to get any species? For the very safety of the one organism depends on its independence by eternal operations to its own stile of offsets, to react only to keep the same figure.

Yet, light must have the lead as the prime grower, to get even the likeness to this from the side forces, to magnetically throw out the arm, leg, and wing, from solid sides, and for living healthy circulation.

$222222222^2 = 49382715950617284.$ And
$333333333^2 = 111111111988888889$
$1111^3 \quad = 1371330631$

Now, for arms and wings, a solid association must exist, with the developing body. The cube of the stream of light preserves it free to get the wing points by the bowels. But the human fingers and toes must be provided for, especially, in the state of the nucleus for them, not one point only.

In nature, the unit addition, naked, and the square developer 2, are at work in ether, by the cubic ruler three and its multiples on the square and unit together. Then, to get living species, each must have a direct preparation from or off all forces of mere settings of the masses at constant natural action to reaction of the mother globe; and, yet, afterward be equal to work under her forces of supply; but, so for a degree of time, or altogether for eternal life, if proposed, as to resist her powers, always, otherwise, at work on crude states of her matter, to be subject to melt them into her own home centre again. "Dust to dust." "Ashes to ashes." The vital gases of life lost to that species or person.

THE SOLAR SYSTEM.

We are now about to enter on the astronomical facts found by the national *employés* at Greenwich; but a few notes will be here helpful.

The common idea has been that bodies which have a given tangential line of motion across the perpendicular of direct concussion by attraction can, by the velocity acquired, get up reaction to fly off at perihelion. This has been illustrated by a man flinging a stone round and round himself, the string to represent the immaterial action of gravitation, but not the force to swing it, as distinct.

By such an infantine idea for an illustration, all the leading facts are thrown overboard. First, if a man swings the stone, the tangential line from that of a straight fall is not in the stone itself or the line, for, alone, both will fall dead at once, but it comes from the existence of the vital heat-power in the man; and, by that being sustained by food from loss in radiation constant, the stone at first and last gets its new line of motion and keeps it up. It is all by a new force against that of attraction. To follow this, the centre of hold by the string being the source of the power to fall and fly off, the same must be imputed to the sun's life for all the planets, and for the moon by the earth's life. Now, there being no mere mechanical spring, there must be from the sun and earth a resisting, material agency, to be found only in their radiating gases at the dependent globe's attraction and swallow to set and keep each going at law, to resist the attraction.*

Next, if the man using the cord lets it go, so that gravitation has it left to itself, to act in a force already given by another resisting power—the stone, earth to the sun, or the moon to the earth—must tend to the straight line,—the line of the attraction, subject in a medium to its proportions of power to subdue the velocity, except as it increases in one falling on time, and by the velocity of the fall to increase the danger. Thus this old idea is altogether alien to science in theory or experiment.

If the man loses his life-power, both he and the stone fall together by attraction to any main centre. So of the sun and all globes, if the solar supply for heat is not found equal to the constant loss by the mass pressure in him and all around; constant fall at smaller circles follows up to rest. Now, if attractive force increased as the distance decreases, it is clear that, as the velocity of the rapid fall causes this danger more quickly, it is in direct opposition to their own theories on gravitation that this old idea for the ascent to aphelion exists, by $A^3 + S^3 + V^2$ against it.

Further, although Bode's law has attained a specific general value by the discoveries in the asteroids, yet the velocities of all the planets in their fall-power are not dependent on their magnitude alone, or the masses chiefly; and the moon is *sui generis* to all others. Hence the fall is mediated by other properties. So these theorists have to find the velocity, so capable for reaction whether as to simple space or in a medium on some root *lusus naturæ*.

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* Hence, as Moses teaches, each globe needed only to be "made" fit for this, and "set" in its place, and the vital thread was "good."

They will have a hunt to find that standard worse than to find the square of the circle has proved, for it is not.

By our experiment of the stone to a man's arm, the centrifugal power is by a means at work which must be seated on, and be off or from the same centre of attraction that causes the danger of collision, and be a directly opposite agency to that for the fall, and emanating from the same centre.

This is all we demand for the whole system of nature, to keep all parts in motion. Less no illustration by experiment will admit for the standard root centrifugal, be the variation of the setting in the make for variety what it may. Light, the life of all, must come from God the eternal in life. We only trace it out fully by science.

THE MOON.

Our future proposed course will demand in us to be particular in respect to astronomical facts known. We have already with Moses assumed a law by which there can be but one sun, one moon, one earth—*sui generis*, to give their titles. We shall prove it.

The moon is the nearest body to us, and by her comparative size to sight, the easiest to consider on her specialities.

Two of her entire peculiarities we noted in the last paper, whereby she always keeps one face only toward our sight. Her one rotation to a revolution, and freedom from Kepler's third law to wit thereby.

Hence her distance from the earth, actually or proportionately, cannot be secured on the same rules that all other globes are. And so from the sun, but on the root of one by one, direct.

Hence, the reduction of the moon's especialities is *sui generis* below that of all organical free motors; and stands, on heat to cold, at the rule of three direct for her setting; and then to react on an equal force in radiative circulations to natural gravity.

Hence, of all globes she is the most susceptible to injury by gases, providing her heats from her fountain mistress.

No other bodies but those three can have true total eclipses, for which the moon is the reduced agent at forces, or times and distances, to her breadths, under finalities between light and ether, or one by one.

The librations will be separately considered; but they are known to be compensative to the noted mode.

That the moon only rotates once to her revolution is easily illustrated by any person seeking to keep his face always toward another, still. In so doing, he must edge round his pivot-centre from looking first to last toward one point of the compass. And he will find the motion followed by inclinations to librate.*

* In waltzing face to face the check and advance is of the same character.

The point has many times of late years been needlessly contested. Yet, this is a different feature of rotation to that of all other globes, although internally effected by the same powers, or properties.

Let any person fix a solid lever with a bulb on the end by a pivot. The bulb, although only moving by the force of the lever, must rotate to the points in space outside the earth. This she does as free.

Again, suppose our æronauts could succeed, as they wish, to get a flying globe to fix to a safe car; then, by the car hanging on hinges to its overweight, if an ecliptic angle could be made to work by a slow gaseous circulation to force the balloon by one month round the earth, the actual operation would end in a sheer solid push of the gases within on the balloon's mass axis to do it. She would rotate by her forces as to points in space; but not as to the earth's face, except by her one face toward the earth's tending to librate.

But such balloon must have a force to overcome all currents acting on her sufficiently, as the moon has from such a mere drift by the density of the mass at work.

Hence, the exact power must be laid chemically within by the ecliptic for the ellipse of the circuit, or to final compensations for unity between rotation and revolution, the lowest possible for life by a drag.

The causes for the librations are by true natural associations. For, if the overbalance of power on one side or hemisphere, to avoid an equalised half-to-half boil, be put to work so that a rotation of all the sides to the earth's face does not take place, it follows that the weight like that of a balloon-car shall exist in sufficient overpowering gravitation, on one side, to the force for rotation singular to the revolution, so that it is at the loss of heat over the other surface in greatness of degrees secured. And, hence, a direct one-sided drag force is attained; but, also, by the forces at work within the lunar body, enough to secure a driving constant push in one direction. The moon being thus held to the earth's mass for it by the moon's overweight on one side, her cauldron bottom.

There is, certainly, to present practical science, no difficulty in the idea of so forcing a flying machine through air, with no danger to those in the car, and the check and renewal to the power must produce librations at escapement and recovery of the power, to rotate, as of a flying pendulum character. Now one rotation round her axis more than this must spill all in the car. That is, a rotative force greater than her dead weight on the earth's side allows as in check.

To illustrate to the eye this point, we use Diagram 8. On the two lines, straight, NS and EW by AB the perpendicular, we have M at a rotation value round the central point E, over the circle NESW, which is of three diameters to the minor circles for the moon.

By any force equal to move the major circle as a mass in density for a sphere equal to overcome its dead weight, by central circulation; if it be condensed into one-third diameter, and that weight to the mass ratio in the moon, as one, at either point, in density of an exact third of that major by AWBE, the minor sphere must rotate round its centre; if the major one could at 3M, the power, round its centre, give off its force in gases for it unchecked in design by a drag.

Then, there would be three rotations to the moon, or a development of the cubes of the rotative force to that for the revolution; also, by the squares of the distance on the root, *that circles are in the ratio of their diameters* to powers or properties in law on weight to weight.

If, then, an upper medium existed to lift by its weight to the value of the rotative heat within the moon, the distance would be to the same force for the orbit,—Kepler's third law realised on its geometrical roots by the mass value or the cubic in gravitation. But if we put a speck on one side of the moon, say that north, at its lower apex, and that point never does more than librate toward E, but always on the rule for that point, as the balance set in between the superior fire conductive force of the body, pyrotechnically, by magnetic sympathies for the action, they must be only equal to the antipathies set for the circuit or orbit, so that to keep that face always toward E we must have that one-sided check in deader weight to unify the both times, as deader to absorb light.

Then in the bowels, as miners do even by water, for the checks to time of a water-wheel pump, the reliefs and power must be at a tick, tick of the floating mechanical pendulum for a time-keeper alike. By no other means for a native power to act could this be done, except by the attachments of sheer mechanical limbs in stiff arms, not even chains or bands would do.

Then, if the forces are so balanced to get the time-keeping chronometrical universe to visible accuracy for a standard, it is clear that M, by the same force in a rise to the lifting weight of the upper ether, by the action in the bowels, like a wheel of fire in the moon, must be at work for the distance, and orbit also; at the rule of three direct to the powers of her supply from E.

So if this action of the moon be to one rotation for her revolution at the distance for an orbit round E, then, as that globe's straight line of constant attraction is the check to the rise for a return to the apogeon, it follows that she must supply the moon with her gases in the renewals from radiations. Then the earth's attraction and the moon's, by the weighted deadness to light to check her from a free rotation of her body (except as to the points in space), must act on the upper ether also, to hold its chief pressure by weight to weight, straight toward the earth to rule the moon.

Hence, the means are thus found to secure that firmamental pressure on the moon's back, and, so, prevent the clouding of her face toward the earth, by the line of the escapement of all her radiating gases, to the side opposite the earth.

Then, when that side is on the line direct, more or less to the sun and earth together, her sufficiency to reflect his light is the more perfectly secured by that clear face. As this point will again appear in regard to the eclipses, we need not note it further at present.

Natural law is, however, to the observers of home experiments very simple; although, in respect to the means by which the vast masses in the upper firmament move, so difficult to little minds, not heeding the value of proportions, as no hindrance to Omnipotence.

THE TESTIMONY OF THE ECLIPSES.

No phenomenon presses more closely over our instincts than the total eclipse, especially that of the sun.

At the latter, birds, beasts, and uneducated men tremble for the consequences at the loss of the source of apparent vital life-supply to all growths. So much better settled are the natural instincts as to where the universal "power," material, centres, to what philosophers have ever attained.

Great the joy at the restoration of supply.

But the use of these returns from many variations in the degrees attained to the totals, the standards, has been thrown away as to one most valuable point astronomers have been seeking, although it is well known that the distances to diameters must return to the mean of law for optics. Hence, it was to show forth the truth that to Jehovah's operations all the results prove all are to be *seen* "good."

Now, two of the diameters are even by the astronomers' known resources very closely and most easily of all to be secured, and the times to the orbits must be proportional to get the distances by a rule.

The earth, as the standpoint to best see and calculate their relations thereon, also, approves her being the standard globe, by which the others are fitted in powers and place.

Observation, also, has, in modern days, attested this, that when at his eclipse by the moon the solar rays impinge on the lunar face, it is in such an excess that a corona or even flames, out into ether, flash from the lunar further side.

Hence the quantity is greater on that side when the earth's attraction is in a line with the moon's to draw the solar gases to that place.

The flood is too great to secure only the usual power she has, to draw, by her own mass, the same streams for her quieter state, as a reflector and motor. Admit that bodies must to their density—greater than that of the same diameter of the field of the upper ether—draw from the lower mass, superior, to their bottoms, the degree for their heating resources, to keep up distances from collapse by attraction, and all the causes are clear, natural, and scientific. For if pressure by the earth's mass causes radiative losses of heat, and the atmospheric pressure adds to it, so that the sweats only return by condensing cold, to lose the finer gases made, which must further rise as fractions of matter to the surface of air,—the same rule must apply, by that "firmament" that regulates alike the distances of globes for safety, and their velocities by its impact. Now "nothing" does not, at impact on any body, produce flame in any case. It must be a "something" gas, other fluid, or solid, experimental. The effects are the same by a conducting convex lens. So the greater degree than the earth's usual draft on solar light, causes it. Inhabitants in the moon would be shy of living the other side to that facing the earth. But, also, what is the cold at the lunar total eclipse by the earth?

The same effects, as a danger, occur when the earth at perihelion has her Australian grasses set on fire by three millions of miles nearer the sun, than at our northern summer.

If that three millions nearer happened when all the northern mass of land is unrelieved to the degree the southern is by the ready ocean —absorption toward the centre for the solar gases,—we should be all in flames together. How do they act on a slated roof as compared with a bowl of water?

Why do the tides recede after the moon, by a velocity received, has passed over that sea; although, whether to the idea of attraction greater by a nearer distance, or the true one, a reduced pressure of the column of ether keeping them down, the power that gained them to so approach her, is still active as to gravitation to drink them up utterly?

Simply, as my lecture in Mr. Pitman's "Lectures,"* proved over twenty years ago, by natural law, because the swell loosens the ocean columns over the hot centre, and the heat escaping faster as she passed on, the waters condensed again, as a cup of tea for a child thrown into a saucer does to cool. So, the earth, as the moon left each perpendicular point, folded her warm blanket of waters round her bed again by its condensation. We will proceed by a diagram;

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* February Number, 1862.

and, to show the roots of the law, may best raise two at contrast. More, here, than the root for the rule we cannot expect to attain, as the vast difference in the diamaters no diagram could feasibly present. Now, before an engineer or architect can build wisely, he must have his plan and proportions proposed on his mind; and a set value for the rule, by a foot, or inch standard, for all to be done. We have to use this for the earth's condensation in matter to the geometrical idea of an ultimate globule, or its proportional cube at space.

Draw (Fig. 9), a perpendicular straight line AB *in extenso*, to carry measure in space at use and divisions. On it claim a point E for the practical centre of drafts.

Over the line AB, we select by E the measure DD, for a distance, normal to measure by measure, for the possession of equal ultimate globules in all properties, especially here, density.

By ED radius, we draw the containing circle, to find the loss of measure on proportion of our scales the earth must have to get her fitted for eclipses. But, her density must increase thereto when found at measure for optical proofs. From the point E, by half DE, draw four circles in the line AB toward B. The most distant point found is M. With EM radius, draw a circle which shall represent the moon's orbit round the point E in space. But for this she must have a power from E to get up motion; and its pivot in attraction to keep her to a circle by a real mass. Next, we draw from E four circles toward B, twice the size of DD. These measure off to a point on AB, which we now make the centre of our equal circle for the sun; and to hang him on the point so found. At the point M, from E, do the same for the moon, at the diameter of the circles that point is measured off by. The points for these two globes to reach, as distance to distance, is on the rule of three direct—four by four.

From the points NN, of the axis at right angles, solar, to AB, which show the optical demand for eclipses of breadths subdued to lengths, we draw lines to E the standard centre, first to be made on demand; and, so, that must, by mass to measure, be the first globe made for practical use, as from her centre both eclipses must appear to run current in compensation by the perfect totals.

By either of our diagrams we find that if the moon's one side is always pendulously timed toward the earth, her times of revolution to secure both the eclipses, also, must be equal to those of each rotation; and this is before us, also, to be under the velocities in each month; or the moon's rotation and revolution so that the earth's revolution, for the imputed standard, must be regulated for her by both forces of restraint in gravitation of mass to mass,—as against it, a force both free and resistant to keep up the motion derivable from the sun; while the sun himself remains free to rule the earth's whole orbit, at Kepler's third law in its roots, but by his exactly designed diameter to be the measurer of the earth's distance from him, by his force and the eclipse thereby. For although the sun has most indubitably to measure by his breadth to right the eclipses of himself by the moon from the earth, yet the earth has to carry the moon round to her place for each eclipse; and, so, to keep her distance to time by her mass attraction, and also find a power in constant support, which acts directly against the imminent fall to collapse, so that the action and reaction of the eclipses shall abide on this standard. Now, it is well known to the most "infant mind" on astronomy, that if the circles performed on time were pure to geometrical draft, at every month there would be one total solar eclipse and another total lunar, by diameters and times to distances direct.

Variety, by exactly compensating reactions in the heat and cold returns in an upper ethereal firmament, being an absolute necessity, to save both globes from utter limbless organisation, by the perpendicular boil of equal hemispheres, does not affect this general law.

But that the totals, abstract, form the standard is a necessity for the ability of astronomers to calculate the dates of the various changes.

Now, by all rule the same apparent size, except the overplus by his photosphere of flame above his crust, must give a micrometrical angle of exactitude to the moon's, which we shall attest in due time by facts known. That will also prove our rule here found.

Also, if the magnetical laying, in design, for the ellipsoidal value in each globe is to be admitted for the force in the rotation, rise, and revolution; as, in fact, is the case for every bird in the air; *cœteris paribus*, as the earth's force of rotation and revolution by light acting on it through her body, must be the quickening force to put it to work, and the same for the moon, by the earth's supply—gases,—then the working angles of these two axes will follow suit to kin-law for the eclipses. This will also be proved by facts observed.

Dealing now with the diagrams as standard, we have in Figure 10 DD, equal for the foot-rule standard to all, the same as in Fig. 9.

By Fig. 9. The reduction first by doubles for the sun, and halves for the moon, demands that the earth's body should be equal by a gestative condensation to become OO, to get the earth's body fitted for the eclipse. But at a second reduction to a fourth of PP or DD the reduction again goes on for the earth to the sun, to be nearer the truth, and the moon by QQ for the earth was 1 M 1 in conjunction, and in opposition 2 M 2, its equal, now becomes reduced without interfering with the rule of measure to measure for the distances and orbits as proportion direct to 3 M 3.

By Fig. 10 we get a more ready and rapid reduction. The sun being at thirds greater, and the moon so much less than DD, so the radius of numbers is by 3 to 9 as in full for O. But, in this case also, we can get no eclipses total of both globes, except the rule of three direct for the moon's course round the earth, as the earth herself appears, month by month by the sun, carrying her moon with her to set the time hands as points in truth.

Also, as the sun has become more like his actually-immense difference in size, lines drawn from his centre in Fig. 10 to the moon in conjunction, or to her in opposition, must pass through her in conjunction, within the disc, by the angle of incidence. Hence, the earth's centre is the only one from whence the eclipses would be set for evidence to God's covenant in the pure and good of weight to measure.

The same difficulty will arise from the moon's centre; and as, in each case, the differences in size extend, so does the variation.

By Fig. 10 the earth's first reduction for a free magnetical gestation is OO and less than that in Fig 9, and so will go on by the sun's trebles, at nine, to the moon, so much reduced until the distances and diameters get to the true. Hence, for it, her nucleus must be fitted at once.

Now the moon, by her magnetical value in the bowels for her forces on change, being set to one revolution to a rotation, is of an actual automatical settlement for the standard over all, of an operative table of numbers. She values by all quicker rotations the orbital powers of globes.

When the rotation to a revolution is set in any higher degree, action must in both cases tend to show both sides to the earth-observers during time and her standard over life be lost.

So the earth has to get a higher value in the forces of exchange, as seen in her many rotations to her revolution; but on what conditions? Clearly, that the force for the distance is subject to the measures by the sun's diameter in the same number, as the moon by her own diameters for her distance, mean, as she has force from the earth, and so, that the velocity of the moon at one rotation to a revolution shall place her by the earth's rotations to her revolution in the requisite position for the sun's eclipse total, standard, between all the variations from it by her diameter, and the moon's total eclipse, standard, over all the variations by ellipses, for the lunar total also face to face.

Now let the reader turn the diagrams with the imputed solar orbs toward him or as lowest, and he has attraction down on the perpendicular in $S^3 + E^3 + M^3$, or mass to mass all three at either total eclipse in a straight line for concussion at all such seasons.

Then let, from the sun, radiated gases emanate to produce, by the pressure on them, to carry and propel them by an encircling medium ethereal, to the earth about the sun, and the same for the moon from the earth, and all science agrees in physical causes for effects, to keep the earth and moon from collapse. Not otherwise by mathematical values as all possible, but, now, clearly, by rotative time lunar to it mundane.

Again, if he places on the moon in the direction by the line AB a visible mark, as of the hand for the seconds of a clock pointing toward E, and remember that this is always pointing in that direction, except by the librations of compensations, and that the earth does rotate exactly so many times as so many distances on her orbit round the sun, by the solar diameters, to measure the distances from total eclipse to total eclipse (of either class for the first as a start); then, as circles are directly proportional to their diameters, and parts, or arcs of them which must be equal in time and mean velocities for the orbits, as one whole to the other; so, the lunar one orbit being the valuer, at a rule of three direct for the whole, on the two measuring diameters, solar and lunar, and that orbit being as a divisor by radius to radius for the circle entire made by the earth in her orbit, the velocities mean of the earth at each day, as of a velocity in time, is that arc of the whole which must be equal to the mean velocity in the lunar month at each of her rotations, as the moon has a full orbit to accomplish in the rotation of her own time; and, so, the velocity by it will follow on a mean orbit to this rule, for the earth's by each rotative time to be so divided for her distance done.

For the earth has an orbit to make so much larger as to carry her moon into position for both eclipses, under the rate also of the moon's velocities, to make her orbit round her mistress. Hence, the time forces must be set to time laws, by volocities mean, on radius, under exact time demonstrations in design, and direct by time rotations primal.

Then, if the earth's force in rotation was not subdued to the rule of order, so that the distance done is the arc of her whole orbit made during a day and is subject to a mean distance in space, which is also at the rule of three direct by the earth's orbit to a year, it would be impossible for astronomers to do what always rules their system—that is, make the diurnal period the standard (exactly as Moses constantly teaches in the history of creation) by which on time to start all the other astronomical changes (eclipses in their variations and all others), to find them beforehand.

Themselves corroborate my system from the eclipses to get the distances.

Hence the velocities of free bodies in ether must be like birds or projectiles in air,—subject to rule the rotations of powers on the same root for any constancy of support, the mean heights and distances or orbits made appear.

The variations in retardations and recovery are only subject, under design for perfect order, in the elliptically-wrought claims of cold to heat, by attraction and recuperation from the resisting attractions to light and ether.

Then, as the moon's one rotation to one revolution must become the standard divisor for the earth's major circle, to place herself and her satellite for the two eclipses in true returns, so her rotation on its time, for her velocity to do her work (by any intermediate time between the whole day and its lesser fraction) during its whole revolution, one to one, must find to the earth's quicker time for her rotation the proportional force, for velocity to velocity (by any standard distance taken to time, or seconds to miles), so that the two times of rotation, being taken from observation (easily made correctly to a second), will give the proportional velocities required for each globe in that time taken (for the rule or the hour) by the full times, orbital for the orbits. For the earth's distance through space, at its mean value, to do the two eclipses, must be at a mean value to the superior quickness of her time in rotation, to find that standard of astronomical use; for she does the arc of an equal distance in her orbit that the moon does by her slower pace in her revolution one to one in time for the entire.

For the diagrams distinctly demonstrate that the mean ratios must be subject to the laws for optical proof therein; and so, in the abstract root, the action to reaction of the two globes must replace the hands of time during the whole of the earth's mean orbital claim, for both point to exactly equal times for each rotation and revolution, and, under velocities in time, to the rule of three direct for the proportions to show it, there arranged by Jehovah.

So the eclipses, by free forces at work under attraction, and through a floating free medium, are actually set for the places of the hands of time, exactly as the clockmaker has to set his when forced to work—actually by pure geometrical radii for circles to circles in time to spaces,—but only in nature as free to variety greater by the values of the magnetically carrying fires of heat across the perpendicular for elliptical compensations by law, instead of stiff mechanics.

The two globes are like two waltzers to time and music, which persons have to be exactly replaced face to face all through the time, and finally to reset on each eclipse the same points of their feet and faces to the same points in space above them, let the intermediate liberty for variations be what it may on velocities in space.

Men and women, without organical life in their bodies and at their command, do not walk to time; neither could the eclipses be performed by the three globes without the currents of life truly set in them for it (Ezekiel i.).

The eclipses prove that God intended to make the whole universe a ruling chronometer, cased to living law universal, with these three globes for the reacting face carriers thereof to sight, hand to hand like a clock at full returns.

THE MOON'S DISTANCE BY HORIZONTAL PARALLAX.

As, by the last paper, we have attained our rule for further procedure, it is clear, that if by observation we can get the two times of rotation, the earth's and moon's, nearly certain; and if by observation, also, one of the distances, then the other is proportionately secure by our required standard, for Kepler's third law over all others. For this, we start to pin down any objector respecting this third point, by adopting the astronomers' own observed data; and to their honour our own mode will approve their diligence herein.

Professor Dick gives the horizontal parallax of the moon in 57′ 5″; Keith, in 57′ 48″; Grant, the historian, says Burchart found 57′ 0″; Damoiseau, 57′ 0″·9; Plana, 57′ 3″·1. Others vary a second or two, more or less. But he further adds that Professor Airey, "By a discussion of the totality of the Greenwich observations instituted, subsequently to their recent reduction upon a uniform plan, has determined the constant part of the equatorial parallax to be 57′ 4″ ·94."

With this we give some of the assumed diameters of the earth.

Professor Dick gives us 7922 miles; Laplace, 7924; Norwood, 7924. But Herschell and Professor Lynn held to 7912 miles. This last we shall verify by other means before unknown.

So this last we shall use.

The rule for working this is found in Norie's "Practical Navigation;" and is exemplified in Professor Dick's "Celestial Astronomy."

2nd term, 3956 miles, earth's semi-circle, log., .	3·5972562
3rd term, radius, ...	10·0000000
	13·5972562
1st terms, sine of angle 57′ 5″ log., ...	8·2202102
Moon's distance, 238,255 miles, ...	5·3770460

If I had used but one-seventh of a second more than Professor Dick's, I should have the distance I actually find hereafter, by other modes, drawn from eclipse rules just declared and proved—*i.e*, 238,247 miles.

The mode Mosaic is thus far approved to agree with most accurate care in observations.

So I claim for the angle to be 57′ 5$\frac{1}{7}$″. The log. for this being 8·2202283.

THE MOON'S DIAMETER BY THE MICROMETER.

THIS is the second, most easy and secure point, in its degrees by human instruments, we require.

It is beneficial to have it, although a still more perfect one God has provided, I shall introduce; but the inventor of the instrument did us a good thing, considering how the best roots of astronomical science have been lost in a fog since the earliest ages.

For the rule required, Professor Dick (page 308 "Celestial Scenery") gives us 238,800 miles; and in his papers more recently published Professor Lynn gave 238,833 miles for the earth's distance from the moon.

Keith presents to us the micrometrical angle of the moon in 31′ 7″; Dick, 31′ 26″.

Professor Lynn gives us 2160 miles for the moon's diameter, and Dick works it in his book to find 2183 miles.

By another mode under eclipse authority, I find the moon's diameter in 2156, which is but four miles from the more modern instruction of the Greenwich authority, quoted.

We will now work it on the moon's distance I found in the last paper, and at 31′ 12″ for the angle.

2nd term, moon's distance, 238,247 miles log., .	5·3770274
3rd term, sine of half angle, 15′ 36″ log., . .	7·6556132
	13·0326406
1st term, radius, ...	10·0000000
Moon's semi-diameter, 1078, ...	3·0326406

Of course, it may be said, that I have first found the angle by the distance; but is the difference anything to object to, when it remains, as I allow, to be proved by a further and better mode for the distance, of which the key is given in an especial operation of the heavenly bodies; while the root for the distance only requires also the alteration from Professor Dick's horizontal parallax of one-seventh of a second, to find the same by that mode.

On the angle, we are but 14′ from that used by Dick, and so much the more toward that given by Keith, from which it is but five seconds off. So far we are on strong grounds with the observers, who have used other methods to those the eclipses were intended to give.

An intermediate value between men who observe carefully, and yet differ, is generally held to be the most hopeful for accuracy.

THE MOON'S LIBRATIONS.

THESE movements, in apparent oscillation by our night luminary, come into consideration now, as of especial import for their evidence.

If the moon really intermits, and then fully recovers her rotative motion, it is evident such an operation shows her to be in the nature of a flying pendulum to the whole planetary system; and, on the rule of gravitation and electrical forces being universal to keep correctly the earth's day and night times, she must be so to all the universe.

If the motion is not merely apparent, then it is certain, as her one side ever remains toward the earth, that the reactions are equal to the action; and the dead-weight ratio, by attraction between her and the earth, at compensative ratios to the causes of such motion. Hence, it must be gravitation toward the line of fall and rest, *versus* some antagonistic power, at a final balance, kept up.

In mere mechanical operations a rifle ball, by the curves in the barrel, gets, with its distance by the force of expansive heat, a rotation and revolution, the first being to the angle of the curves. Both are resisted by the air or other fluid medium, and are so regulated; and by the ratio of that resistance to the non-continuance of the power, die out together. It is of common law.

We will, now, give the needed extracts from one of the astronomers, on the points they have come to a conclusion about, thus leaving the onus by observation on their hands.

Professor Kiel,* Fellow of the Royal Society, and Professor of Astronomy in the University of Oxford, says one libration to our eye is only apparent, owing to the ellipticity of the lunar orbit; and the reduction of her rotation to be one in a revolution.

This he proves by a diagram would so appear, and yet be only optical as stated from the changes in position. "Hence it is evident,"

* Fifth Edition corrected. Published 1826.

he says, "that this libration is restored twice in each period of the moon."

But we will consult Professor Grant's "History of Astronomy," as the most full and most modern for correct analysis, merely observing on the statement of Kiel for any apparent oscillation, that nothing even of that sort could occur to a body projected into space, and be kept up, unless the "power" was above * the proportions of simple gravitation against the straight attraction of the home balance of mass to mass in the moon herself, much less to that of the earth, and sometimes the sun also, for one line at but one rotation. Such an idea is against all true theory and experiment. It can only be by the moon's forces of breaking in, at draft, over an intermittent central vacuum, and then its expenditure, that the one rotation by elliptical motions is kept up.

In page 72, Grant says, "Another subject which soon after engaged the attention of geometers was the librations of the moon. It had been remarked from the earliest times, that the moon turns the same side toward the earth throughout the entire course of every revolution. A curious consequence of this fact is, that the motion of that body round the earth is equal to her motion round her axis. It is singular, however, that this conclusion does not appear to have suggested itself to astronomers until the revival of science in modern times.

"Galileo discovered that the appearance of the moon's surface is subject to a slight variation dependent on her altitude above the horizon. This fact he rightly explained by the variable position of the spectator at the earth's surface, on account of the diurnal motion. In fact, unless the moon be in the zenith, a spectator always views her in a direction different, more or less, from that in which he would view her if he were placed at the centre of the earth. This phenomenon, in consequence of passing through all the phases in twenty-four hours, has been designated the diurnal libration of the moon."

Here, we may observe, how certainly the forces to do it must be set to act from the lunar centre, as from thence, this phenomenon with the spectator at the earth's would not appear so great.

Again, "Helvevius discovered a similar libration in longitude, which he ascribed to the displacement of the centre of the orbit from the centre of motion, but Newton first gave a clear explanation of this phenomenon in a letter addressed to Mercator, which appeared in the work on Astronomy published by that individual in the year 1676.

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* Yet, although sufficient to keep the moon off from the earth, it is below the geometrical radius to most natural selection, as that allows of no less than three rotations even at touch the easiest to get up.

"He showed it arose from the inequalities of the moon in longitude causing the angle described by her round the earth sometimes to exceed in magnitude the angle described by her round her axis, and at other times to fall short of the same angle, whence it happened that the great circle formed by the intersection of the lunar surface with a plane passing through the moon's centre, perpendicular to a line joining the earth and the moon (which great circle determines the lunar hemisphere visible to the spectator) does not maintain a fixed position, but oscillates continually round a mean state. In the same letter, Newton explained the librations of latitude which arise in consequence of the moon's axis of rotation being inclined to her orbit. This phenomenon, like the two already mentioned, is purely optical."

So far, we appear to be thrown out of any actual libration of the body of the moon like the balance action of a pendulum. I quote so much as a matter of clearness. But we may, here, observe that even these could not so appear if, as by our diagram, the orbits were of pure circles. But by these being thrown into ellipsis of true compensations at perfect design they are accountable for.

But further, we may note, that if the moon has her ellipsis in motion, between the earth's and sun's attraction, reduced to a force for the rotation over her home mass-centre, by hemispherical competitions, to be able only to do one in the revolution, then the profit and loss on the rotation on a fixed centre to that on a change of another ruling free centre must exist, and become apparent in addition to those as real and not optical only. But for the sake of another point yet to appear, as of great import, we will further follow Grant.

"Cassini is the next person whose researches contribute to throw light upon this interesting subject. This astronomer discovered the remarkable fact, that the nodes of the moon's equator always coincide with the nodes of her orbit. It is, also, found that a plane drawn through the moon's centre, parallel to the plane of the ecliptic, is always contained between the planes of her equator and orbit, so that the poles of the latter are constantly situated in the same great circle with the pole of the ecliptic, but on opposite sides to it. He fixed the inclination of the orbit at 2° 30′." This introduces the moon's axial angle for rotation, and so we add other statements about it.

Mayer, about the middle of the last century, undertook an extensive series of observations, for the purpose of verifying the conclusions of Cassini. He measured the distance between the nodes of the equator and orbit, and found it to amount to 3° 30′. He remarked, however, that the displacement might be considered as absolutely insensible, since the determination depended on the inclination of the lunar equator—an error of 20° or 25° in the distances between the nodes.

This remark determines the importance in the exactitude of the setting, off the equatorial line for an ecliptic angle, in all globes by the magnetical force.

Again, "He fixed the inclination of the lunar equator at 1° 45′"—a quantity considerably less than the corresponding one of Cassini.

Lalande, a short time afterwards, made observations on the moon, and arrived at conclusions which mainly agreed with those of Mayer; but he obtained 2° 9′ for the inclination of the lunar equator.

Recent observations have, however, confirmed completely the value assigned to that element by the illustrious astronomer of Gottenburg.

This point, which will appear again, is of great import in respect to the nucleus decimal for the earth to naturally gestate into, the angle of the axis she has for her angle of rotation and revolution being the same. And also for the sun at the same to be standard, with the moon made to fit, on the rules found by the eclipse rights of proportion.

Further on, on this subject, Grant says, "Newton, however, did not fail to observe that the motion of the earth would, under certain conditions, affect the figure of the moon, and would thereby occasion a real variation of her rotatory motion.

"Proceeding on this supposition, that she was originally in a fluid state, he concluded that the terrestrial attractions would draw her into the form of a spheroid, the longer axis of which, when produced, would pass through the earth's centre. Comparing this phenomenon with the tidal spheroid occasioned by the action of the moon upon the earth, he found the diameter of the lunar spheroid, which is directed toward the earth, would exceed the diameter at right angles to it by 186 feet. He discovered in this elongation of the moon, the cause why she always turns the same side toward the earth; for he remarked that in any other position the action of the earth would not maintain her equilibrium, but would instantly draw her back, until the elongated axis coincided in direction* with the line forming the earth and the moon.

"Now, in consequence of the inequalities of the moon in longitude,

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[*] This is rather a curious conclusion, if correct, as in respect to especial design in their mutual fitting for work, to be especially done between them; as no satellites of other planets are interfered with by a different condition from that all have in regularity by Kepler's third law.

the elongated axis will not always be directed exactly to the earth. Newton, therefore, concluded that a real libration of the moon would ensue, in virtue of which the elongated axis would oscillate perpetually on each side of its mean place."

In respect to the examinations of La Grange, Grant says:—"It does not appear to have occurred to the latter (La Grange) that the centrifugal force, generated by the rotatory motion of the moon, would in reality acquire a form of an ellipsoid, the greatest axis being directed toward the earth, and the least perpendicular to the plane of the equator. The greatest axis and the mean axis will both lie in the last-mentioned place; the mean position of which, as we have already stated, is parallel to the plane of the ecliptic. La Grange also found that the excess of the axis turned toward the earth over the least axis was four times greater than the excess of the axis at right angles to it over the same axis."*

On this consideration, this philosopher is stated also to have found that "the velocity of rotation is, on this account, accelerated beyond its mean state, and at other times retarded behind it,—whence ensues a real libration, similar to that remarked by Newton." So, we get to a real pendulum action, under the forces balancing, while sustaining, perpetual motion at last, be the latter what they may.

Had Newton considered more fully the laws of nature, and the action of his own discovery, mutual attraction of mass to mass, he must have found, that as the earth requires her solids to be fixed in cooling connections, first, before she could be able to keep her waters from a direct rise to mix with those of so heavy and near a body as the moon, so that she raises them at the perpendicular always, he could never have supposed the moon could have done other than fall to the earth at such mean support in ether, or mere distance, against it,—if she, too, had not her solids set and cooled as Moses presents, at once, on being set to work with the earth.

When the moon is over the earth, her attraction tends to raise the heavy waters of the ocean; and, of course the lighter ones of air and other gases are similarly affected, as attraction is no respecter of what matters it acts on.

But how does she not lift them off the earth, as the column of ether, between, is decreased at the lift; and why is not the highest tide at the direct perpendicular, but because the ether demands time to affect them fully, and the passing on of the solid moon, gives the return of the waters,—by the solids at fixture within,—at their attraction restored in command, as of the earth ruling for her own.

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* Of La Grange, Grant says:—"He also determined the laws of the small oscillations, by which the true node of the lunar equator deviates from the mean node," with other points from many astronomers we do not need here.

What makes the ocean body equal to this courteous bend to the moon at her passage? Hot gases supporting its fluidity. But if all the earth was of fluids, up to the moon all must go. So, if at any time all the moon were fluid, then, at such a weight in ether, and at that distance, by the separating force of its columns to the full weight over all, all the mass must fall to the earth. And all would now, if the calorific powers of the earth were not the moon's supply-force, to keep up the safety in the motion. Hence the moon must have, at once, in design, been made the ellipsoid, observed, by Jehovah, before attachment to the earth, as inspiration declares.

THE INEQUALITIES OF THE ORBITAL VELOCITIES LUNAR.

As an instance of the curious mistakes on law philosophers have made, I may quote from Grant's "History of Astronomy" the following, page 71:—"Laplace, at a later period, examined the effect which might be produced on the motion of the earth's axis by the fluid state of the ocean; and he was conducted to the following conclusion:—*The motion of the earth's axis is the same as if the whole sea formed a solid mass adhering to the surface.*" Now, if the earth had been one solid mass only, then gravitation to the solar attraction must have kept the earth, if she could spin at all, turning like a pegtop on the perpendicular line of main attraction always—*i.e.*, by the main line of the mass, only with the bottom downward, as boys sometimes like to spin their tops.

It is only by chemical life organised throughout, so as to give the spin on a line of opposition, by the new heat against attraction, and being equal by its command of the whole mass, that the ecliptical lean for reactions of the earth can take place by law.

In this respect, for the moon, we keep to the facts given by the astronomers; for by the above idea all motion must be equal through space, if under Laplace's system.

Dick, in "Celestial Scenery," says: "About the 1st of January, when the sun is nearest the earth, the apparent diameter is 32′ 35″;

and on the 1st of July, when he is most distant, it is only 31′ 31″. This proves that the earth has a slower motion in one part of its orbit than another."

In January, it moves at about the rate of 69,000 miles per hour, but in July its rate of motion every hour is only about 66,400 miles, —a difference of more than 3000 miles per hour. We use this fact as a witness as to what is known of the earth and all planets; and this cannot be accounted for by mere mechanical operations, gravitational, alone. All vary in their velocities during their orbits.

Now, equable motion can only be supposed to belong to that globe which has always one efficient stream under "Let light be," by kept-up fiat, and all the universe around him circulating over his vast shoulders,—the great solar orb, the Hercules of the ancients.

But our moon is subject to more inequalities than any other globe, by her more close approach, under the order we have traced for her setting to the earth, that rules her efficiencies for both the rise and decrease.

This clearly could not be accounted for by simple, sheer attraction for a fall to the earth alone. But her low order of bowel-powers, by that witness in the angle of her axis, for the conduction of the magnetically-carried leverage of chemical changes developing her heats, will do it.

On our chief point, the moon, we shall quote from that astronomer, Professor John Kiel, Fellow of the Royal Society, and Professor of Astronomy, in an earlier day, to the University of Oxford:—

Page 100, Fifth Edition, 1827 A.D.—After introducing this globe as moving, like all others, on an elliptical orbit, with two apsides, especially, to her peculiarities, entitled the apogeon and perigeon, he says:—"And if the orbit of the moon had no other motion besides wherewith it is carried round the sun"—*i.e.*, by the earth—"it would always retain a position parallel to itself, and would always point the same way, and be observed in the same point of the ecliptic; and whenever the moon came to the same point, it would constantly be at the same distance from us, but this line of the apsides is likewise observed to be moveable, and to have an angular motion round the earth from east to west, according to the order of the signs, so that it does not return to the same situation till after the space of almost nine years." This acknowledgment at once admits that a real balancing value is set between the signs of the zodiacal galaxies, as Moses taught they were made to effect in his fourth day, setting them first on this purpose. It also shows an elliptically-set nice law of compensations on the final integer, solid and decimal—9—between the extreme rulers,—the signs of the zodiac, and our lowest carrier of life-forces, the moon, under the earth's guidance and powers through space. This effect, by the little moon's evidence, is of great import when considered with regard to the regulating means to keep the immense solar orb steady to a course. It cannot be ignored, as Moses secondarily sets it, after the order, first, by sun, moon, and earth.

In connection with this root at work above as the first, Kiel gives us exactly seven different peculiarities for the lunar variations. In other words, compensations under the root of the square of the circle, by ellipsis off its exact square. Now, these variations must be held to be so arranged under all the forces of law, in connectión with her mistress the earth, and of the earth by the sun; and so, exactly as the calculations for the eclipses require for returns, and the admission of the signs of the zodiac as of living, motive masses in attraction, must allow that all the astral galaxies are also exactly so set to attraction and light emitted—that they associate as a living casing round the sun, for order, as Moses taught—*i.e.*, round the solar system.

Dick, p. 233, tells us this:—"The nearer the moon is to the periods of full and change, the greater is her velocity; and the nearer to the quadratures, or the periods of half-moon, the slower she moves. When the earth is in its perihelion, or nearest the sun, the periodical time of the moon is the greatest. The earth is at its perihelion in winter, and, consequently, at that time the moon will describe the largest circle about the earth, and her periodical time will be the longest. But when the earth is in aphelion, or farthest from the sun, which happens in summer (the Northern), she will describe a smaller circle, and her periodical time will be least; all which circumstances are found to agree with observation."

These peculiarities the worthy Professor Dick puts down to solar attraction alone, but he admits that these points have troubled astronomers most sorely;* which must occur, no doubt, by their hypotheses for all the causes and effects, which leave out all the most potent forces of exchange known below, except that of attraction to meet. Before we consider Kiel's other variations consecutively, we will set a Table by his and Professor Dick's accord.

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* Page 233, "Celestial Scenery." Eleventh Thousand.

TABLE.

Kiel, Earth in Aphelion,	Moon quickens her pace,	Period less.
Kiel, Earth at that Phase,	Slackens her own pace,	Period alters not.
Dick, Earth at that Phase,	Moon's circle smaller,	Period least.
Kiel, Earth in Perihelion,	Moon's pace slower,	Period times more.
Kiel, Earth in Perihelion,	Earth quickens her own pace,	Period alters not.
Dick, Earth at Perihelion,	Moon's circle greater,	Times greatest.
Dick, Earth in Perihelion,	Earth's pace faster,	Period alters not.

Here is a clear contradiction to the idea which astronomers of old have so fought for,—that gravitation alone secures the safety from collision by it at $S^3 + E^3 + M^3$, at all places alike. For whether the line is one through all or not, the mass attraction to a point between the three is known not to alter by all, as of one. Now, no body known amidst the globes of heaven is ever observed to alter the period entire, although all alter the velocities during parts thereof, except our moon. Why? but because the magnetical life-power she has is reduced so for the recovery of heat in the bowel force, as to carry a table of numbers for all; and, so, at times is below par, primal, needing time to recover, by her drafts from the earth, at a lower place, and a less columnar claim on the earth's gases of the ethereal medium between. By the table, as the phases work for the moon, they act exactly oppositely for the earth. No doubt the philosophers were puzzled. Account for this at the variations the earth gives by solar supply to her moon's deader parts in her bowels, and all is plain.

When the earth is in aphelion, she is further for the force of her draft on the solar gases; so, the moon's draft on her, being by the mass claim alone the same; she, getting less help, falls nearer to decrease her circle into a less period, at her mistress's clasp, and by her reflection of solar light to help the earth to keep up life-powers; while the earth's own powers slacken, as a man's do, at the great mountain height in the circle of air, so expanded from the earth's condensing power.

What does the earth do when she falls nearer her solar consort, but exactly the same; she begins not only to fall faster for her draft at that fount of her life-safety, but by the supply found, keeps up a quicker pace for awhile until she gets into a thinner ether again to slacken her rate.

In the meantime, the earth's velocity of rotation never alters, because it is bound to a solid axis, which finds the same force for the movement, by the equivalent fall and rise into a denser or looser ether all round it, as the loss for velocity in space alters by the columns between. So it remains an unalterable standard for all. If she draws more force from the sun by nearness, the pressure of the ethereal agent to exhaust it is to the same degree greater; and *vice versa.* This proving the actual mechanical rise and power of the upper heaven, to be like its congener by name, Biblical, the heaven of air,—a truth lost by unbelief in Jehovah's Word.

We will proceed to consider Kiel's other statements. "Secondly, when the moon is in syzygia, that is in a line which joins the centres of the earth and sun (which may be in her conjunction or her opposition) all other things being alike, she has a swifter motion round the earth. But in the quadratures she goes slower." Now in the quadratures the aid to the line of draft of the solar assistance to the moon to keep up her greatest elliptical losses for the standard at numbers only, tick, tick, of the pendulum, which at a straight line for the solar eclipse showed the back of the moon covered with flames; force is least, or most, as the two opposite conjunctures operate. For no globe, any more than the ethereal heaven, but must have some condition solvent over the surface to solar light, however dependent on another centre for the revolution, a great point in respect to the factorship relations, by design in skill.

"Thirdly, according to the different distances of the moon from syzygia, that is, from opposition or conjunction, she changes her motion, and in her first quarter of her motion, that is, from conjunction to her first quadrature, she loses something of her swiftness. In her second quarter, from the quadrature to her opposition, she increases her velocity. In her third quarter, from opposition to the last quadrature, she again loses her motion, and from that quadrature to the conjunction she again recovers her swiftness. This inequality in the moon's motion was first discovered by the noble Tycho, who called it the moon's variations."

All this is accounted for as the rule of receiving, to her attraction, by positions in ether, different volumes of the earth's gases. But on no other natural law, to experiment, at all.

Kiel's Fourthly is:—"The moon moves in an ellipse whose focus is the centre of the earth, round about which she describes areas proportional to the times, as the primary planets do round the sun; whence the motion of the moon is quickest in perigeon and slowest in apogeon."

This merely arrives at the same conclusion on the general root of all planets round the sun, or other centres of subservience. A focus is generally held to concentrate to its own draft something at its direction, and to vary in power for such supply as the column of air or ether intervening is greater or less, by the distance.

So, all globes draw, for resistant means, to the mutual draft for collapse. Not real matter gained, could be any draft at all. It is a drink at the fount of life given.

Kiel's Fifthly.—"The very orbit of the moon is changeable, and does not always keep the same figure. But its eccentricity does now and then grow greater, and now and then diminishes; and it is greatest when the line of the apsides is coincident with the syzygia, or is in the line which joins the centres of the earth and sun; and the eccentricity is least when the line of the apsides cuts the other at right angles. The difference between the greatest and least eccentricities is so considerable that it exceeds the half of the least eccentricity."

None of these observed facts are more important than this to us here.

In the first place, it declares that, although the ellipsis is the general rule, by a standard figure to a pure circle in gravitational right,—yet, as in this case, if a body is seen to run steadily and constantly from one degree of eccentricity into another degree, the forces at work cannot depend on the masses being unalterable in quantity; as otherwise the law of mass to mass for regularity at equality must be thrown out. The two ideas are plainly in contradiction.

That the moon has a mean value as her standard for her mean distance, is clear, as the reactions are constant to detail; but she is never found performing a true elliptical line orbital. So, there must be concessions of exchange between two forces at work, for the rise and fall—not possible to one only.

Even the stone and sling idea is more than ever at fault here. No mere table of figures could do this at all. It must act by true ellipse, or go wrong. So, the moon's setting is by a table of numbers standard to allow of her life-variations, as her supplies of forces drafted from the earth and sun admit. As Ezekiel's version told us.*

"Sixthly.—The very apogeon of the moon has an unequal motion, and sometimes moves forward and sometimes backward. When it is coincident with the syzygial line, its motion is forward; but when it cuts that line at right angles, its motion is backward; and its progress and regress are nowise equal. But when the moon is in quadrature with the sun, the apogeon goes but slowly forward, and even may stand still, or go backward. But when the moon comes opposite or conjoint to the sun, the apogeon has a quick motion forward."

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* The earth may also run from one orbit elliptical into another, year by year, without altering her period, under the compensations of the upper heaven. Hence, seasons all differ without changing periods.

It is not here meant that the moon at any moment actually stands still, much less goes backward; it is the relative phase in consideration that does so.

The earth carries along the moon, and at a general rule should carry the moon to do her work round her at similar distances and rates of motion; but the variations of the lunar power to draw her springs of light alter by both the earth's and sun's places. Nor is this case of the same causes for the apparent standstill of the planets, outside the earth, by her own quicker motion.

"Seventhly. The motion of the nodes is not all uniform; for, when the line of the nodes coincides with the line of syzygia, then they stand still without any motion; but when they cut that line at right angles they go backward, or from east to west, with a considerably quick motion. The most sagacious Sir Isaac Newton was the first and the only man who has discovered the true causes of all these inequalities, and has demonstrated that they all arise according to laws of mechanics from the theory of gravitation of matter on matter.

"It is very surprising, that the moon which of all the heavenly bodies is nearest to us, should be so hard to find her ways, and the causes of her irregularities."

The last admission may well raise a smile; for, how could it be otherwise, while gravitation for a straight union of all masses, according to their weight through ether, or other fluid medium, although at different velocities according to their density; or in empty space as was then held by savants—*i.e.*, their vacuum, without any difference in velocity as experiment has proved, was supposed to be able to do the work of direct opposition to its own faculty; and without heat or chemical operations of matter on matter, to raise it to turn the lower apsides. No greater contradiction can be supposed in law. Now, let all the other properties of nature known below be allowed for astronomy, as of a true universe by weight to measure under decimal practice, and the moon is found by her nearness to the earth to be the best help to understand the common system that can exist,—as she was, in fact, made in God's goodness to be.

The seventh difficulty of Kiel is but a witness to the rest on the Sabbatic number to find all the actual distinctions for the lunar compensations, as reduced to be most easily detected by sight. There is but one rule for a globe from Kepler's third law, that is, of a reduction of the mass powers to the rule of three direct. Our practical proofs will be abundant.

TO FIND THE EARTH'S SOLAR AND LUNAR DISTANCES BY THE ECLIPSE ON OPTICAL RATIOS.

HAVING settled the roots of law for this, we are on ground for the discovery, by the principles in the previous paper, under the diagrams thereof.

Also, we have the facts proved for the moon's distance from the earth by horizontal parallax, and her diameter by the micrometer in evidence.

All our time-keepers require the final balance between the spring and pendulum by an escapement, which falls back to the normal root between the power centrifugal and centripetal,—the pulse thereof mechanical to times, final within.

This nature presents to us also,—in the moon,—by her one rotation to a revolution; and the librations; but as all her other operations go on,—that is, by the chemico-electrically directed forces, to the settings first made for them, between gaseous or fluid forces (waters), and the dead weights greater of solids. Change running entirely through the system in chemical rights of circulation as of true life automatical.

Respecting the first data required,—observed times,—I take them from Professor Lynn's papers, given in the *English and Foreign Mechanic*, some years since. They, therefore, belong to the Greenwich Observatory.

Earth's time of revolution, 23 hrs. 56′ 4″ = 86164″.
Her sidereal time, 365 days 6 hrs. 9′ 14½″ = 31472014½″.
Lunar times (equal), 27 days 7 hrs. 43′ 11½″ = 2354219½″.

Although other astronomers vary a little from these, my own proofs will hereafter attest that they are the best, and very accurate.

Our rule from the paper on the eclipses, sets us at once at work by the two times of rotation. That of the earth on her axis to a day and night, and the moon's equal to the revolution only, as so much less slow; and, hence, to the orbital times, by the same variations for the powers through ether on the settlement for a quotient, giving the velocities to an hour-standard on the periods observed.

This law is clearly, now, proved to be the true one; but further evidence will attest it as we proceed.

A day.		Moon's rotation.		Moon's probable velocity in miles.		Earth's probable velocity in miles.
86164″	:	2354219½″	: :	$2290\frac{1200}{86164}$	:	$62569\frac{00126\cdot0432}{86164}$.
An hour.		**A month.**		**Miles per hour.**		**Moon's orbit.**
3600″	:	2354219½″	:	$2290\frac{1200}{86164}$	:	$1497554\frac{1042}{3600}$

Square of the circle. Moon's orbit. Mean R. Vector. Moon's distance.

$$22 \; : \; 7 \; :: \; 1497554\tfrac{1042}{3600} \; : \; 476494\tfrac{12}{22} \qquad 238247\tfrac{4}{22}.$$

Earth's period. Earth's orbit.

$$3600'' \; : \; 31472014\tfrac{1}{2}'' \; :: \; 62569\tfrac{126{\cdot}04332}{86164} \; : \; 546992367\tfrac{88}{3600}$$

$$22 \; : \; 7 \; :: \; 546992357 \; : \; 174043025\tfrac{10}{22} \div 87021512\tfrac{1}{2} \text{ miles,}$$

earth's solar distance.

Then, by the moon's orbit for a divisor over the earth's, on the optical rule, by one force in rotation to another, on the same power in time for each globe for their respective rotation to the revolution, we have, by a rigid law—

$$546992367\tfrac{88}{3600} \div 1497554\tfrac{1042}{3600} = 365{\cdot}385051\tfrac{1356}{3600}.$$

$$1497554\tfrac{1042}{3600} \; : \; 385051\tfrac{1360}{3600} \; :: \; 86164 \; : \; 22154{\cdot}749139''.$$

This equals 365 days 6 hrs. 9′ $14\frac{749139}{1497554}''$.

The difference in the workings is but 1497554 ÷ 2 = 748777 to 749139, or but a 2060th part of a second.*

By the horizontal parallax we before found, on the same roots that astronomers use, and the same rule,—that the moon's distance from us was 238255 miles. This alters the rate but little.

It gives the diameter of the orbit in 476510 miles × $3\frac{1}{7}$ = 1497602·6, the orbit.

Velocity.

So—$2354219\frac{1}{2}'' : 3600'' :: 1497603 : 2290$ miles per hour.

Now, Professor Lynn, of Greenwich Observatory, gave, in the papers alluded to, the moon's mean distance in 238833 miles, which to 238255, is but 478 difference, and to our preferential finishing in 238247 miles, but 586 difference.

Let the reader consider, that if this mode by optical law, under the eclipse standard of the two totals, gives so clear a sound for the moon, it must be, as it is in the earth's rotative time-force found to her own correct for the earth also, by the same law,—a fact no engineer would for a moment contest.†

But we can gather another beautiful evidence on the chemical root of the earth's bowel-operations, to give by her time of rotation with two decimals added, to allow for her standard, at the root for compression (from DD figures 9 and 10 for the decimal standard of powers), so that she shall be set to a standard for all, and to carry the same force through space she has to overcome her own inertial rest on the centre of her mass. The moon at unity to the sun. $86164''{\cdot}00 - 62569''{\cdot}00 = 2359500'' - 2354219\frac{1}{2}'' = 5280\frac{1}{2}''$. No better evidence of the earth's ordained place. The examiner must here notice that the sun in difference, $5280\frac{1}{2}''$, is on the decimal condensative right for the earth's velocity in space, not at full, but of only two figures, or 52nd and a fraction out of a second.

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* A copy similar to this valuation in optic rules was sent by me to the British Association, prior to the meeting at Liverpool in 1870. I had the Acting Secretary's receipts. I sent it in, with two others in corroboration, the following year, at Edinburgh, which meeting I attended.

† I once showed this calculation to Harry Davy, Esq., once in the management in London of Armstrong's works there, and at one time on the staff of the *Engineer* periodical, now managing proprietor of the Sun Foundry, Leeds, and he directly said, "I see what you have; it is a standard for all."

In getting the fractional proportions by the times rotative, I have been so particular because it will be of considerable import in a future requirement.

For further evidence that these two globes were especially made to carry the standard, with a compensative right to growing forces by light,—we shall go to the evidence by our diagram, Fig. 4, the standard on which the square of the circle is declared; and find links for the moon, as the minor reactor in parallelism to that main reactor, the hexagonal prism, as the geometrical interior and inferior reactor to the cube and the sphere by the circle and square of Fig. 4, on a root reductive by the standard lever 7 of the scale.

To this the hexagonal polygon by radius 70 for 7 standard in chords to arcs of the circle, thereby, $7 \times 6 = 42$. Now $42^3 = 74088$ at nucleus abstract. Put this at work from sheer rest under attraction of matter for matter by light new received at its draft, and $74088 \times 3\frac{1}{7}$ for the normal power of light over all, and it equals $232848''$. This is but of six figures to seven of the moon's times. But it corresponds very closely to the decimal current as 2328480 is but $25739''$ in difference. Which, for a compensative liberty in need from the abstract value to get at work on compensations over the earth, that a solar orb may come in, so that three by the eclipses shall show the standard is but a liberty of 7h. 8m. 57s. to get the three at work. And it seems to mark the hour as closely as possible to the standard between all times, and on the Sabbatic number for the square of the circle.

For, let the reader remember that the abstract ratio standard in gravitation, not only must be left between the hemispheres to get one globe at work off the boil, but the more so to show it by three in mutual compensations of different offices.

So, the moon requires but one decimal cypher between the abstract value and her time, to her force of mass condensation; and the earth two as here presented.

It would be impossible to judge anything here, or to make them correspond by any mere chance.

It is, also, a significant fact to be here remembered,—that if we used 70 instead of 7, we have $420^3 = 74088000 \times 3\frac{1}{7} = 232848900$, when we have to cut off two decimals. So, by light, to set the new decimal cypher into existence on the lunar nucleus, 7 only is the true, as the power is reactionary to swell toward the centre, and also from it, for one in gain final. The difference is, also, on a 91st degree to a decimal balance thereby; and hereafter the reader will find that the sun's orbit is divided by the earth's, at another close approach to 100 on 93.

But, further, on these tracings of the abstract roots. The earth's period is by Lynn 31472014½″. This $\times 2 = 639944029$. Divide this by 10^3 to get her operative velocity, to show her fittings to carry the evidence by a condensative standard final,—and we have 63944, which is but 1375 miles different from her velocity in space, herein found before; and at a less rapid rate or force magnetical, which across her axis it must exist in some degree to her loss, by 23° 27′ for its worked and working ecliptic leverage of fire, from 22½°, the standard highest. It has been truly said, "The undevout astronomer is mad."

But, "Thus saith the Lord, which giveth the sun for a light by day, and the ordinances of the moon and the stars by night, which divideth the sea, when the waves thereof roar, the Lord of Hosts is His name."

To suppose these things exist without direct design, is a sheer act of folly and ignorance.

PROOFS BY THE STANDARD AXIAL ANGLES.

Some points previously suggested we will now submit to evidence under observed facts.

The pyrotechnist finds it requisite to make, under careful design by chemico-electrical suitabilities, all the parts to all the different conductive forces of fire, centrifugal; and to so set them that he gets a whirling action to time instead of only a straight shoot, under atmospherical pressure, at his skill. This point we have to consider in respect to the three principal globes, and under especially these two, our earth and her moon, by whose movements the eclipses return. No point can be more important. If we find these two axial angles in their leverage degree both for the form, and the motions are such as to prove such a design in the actual setting to decimal changes, then all our main points, previously mooted, are settled. Magnetical attraction on chemicals of sympathy carries, by a thread from without, the centrifugal power. In vacuo all dies down; so ether must exist, at the excitement of light, new. For otherwise vacuo must be around ether and all for death, as infinite measure for all could not allow proportion. Then, also, the moon's angle must be so low as to work direct; and so fit the evidences for eclipses by one rotation to a revolution to open points only. We will test this on the observed angles by others. Keith gives to the earth 23° 28′ = 84480″ for her high ecliptic angle; and for the moon so low as 1° 43′ = 6180″. This is very close to those estimates Grant gives, as those for the moon, by other savants. He prefers that by Prof. Mayer, 1° 45.′

Our rule is, that these angular forces are reduced to act, at the rule of three direct, for a power to give the distances of each globe from the other globe, ruling in attraction for a fall; and the same force for the rotation and revolution in each. This force giving the rise by the cold fall of ether at its mass, throwing (in fact, pumping) up the globes to equilibrium in it, and to work these for circles constant in ellipses.

Earth's Ecliptic.		Moon's Ecliptic.		A Year.		Moon's Period.
84480″	:	6180″ by Keith	::	31472014½″	:	2303931″

This is very near the moon's times. We reverse the order to get, by the rule of more easily observed times, the angle. Times being from Greenwich—

31472014½″ : 2354219½″ : 84420″ : 6314″·28910637

This equals 1° 45′ $14\frac{28910637}{31472014\frac{1}{2}}$, and so is almost exact to Mayer's calculation. So the historian Grant was quite right in his selection amongst others. Our point is demonstrated. We will set this to a decimal test:—

Earth's period, 31472014½″ ÷ 84420″ = 372·67774½
Moon's period, 2354219½″ ÷ $6314\frac{28910637}{31472014\frac{1}{2}}$ = 372·5068.

Another mode will bring out by the current line of the integers a similar issue; but also provide evidence on a most important question additional.

31472014½″ : 84420″ :: 987654321″ : 2649588″
2354219½″ : 6315″ :: „ : 2649271″

Now the solar ecliptic angle, or that of his axis, is by the astronomers 7° 20′ = 26400″.

One of our theories is that ether claims at creation all the dual globules in equilibrium entire, and the units belong to the stream of "Let light be" from Jehovah's bosom, unalterable for the standard. For one point we maintain being that the decimal 0 is the result of action by light over the integers of real weight, for the rotator at growth by a unit integer at an elliptical division, we could not do this last test by 1·000000000 so certainly to get the sun's axial angle. But

2354219½″ : 6315″ : : 9876543″ : 26493″
31472014½″ : 84420″ : : 9876543″ : 26493″

The indicative for the solar axial angle is but 93″ off that observed. Also, on another point of some import in law.

987654321 × 84420 = 83377777778820.

Now, this belongs to the full action of light in the bowels, after the first setting in nucleus is at work; and we have by the earth's power seven Sabbatic numbers developed in the working. No trifling evidence to the Biblical scholar, that she is the made standard for all. The full mathematician the same.

The earth, also, to radius, by her overplus gift of 84420″ to 45 degrees, the mere mechanical lever, divided for factors of fluid variations on magnetical sympathies by 2 = 22½° = 81000″ on the earth's change in design indicates another point—that of the earth's eccentricity.

Radius 90° = 324000″ : 84420″ : : $24866\frac{2}{7}$: 6479″
" " : 81000″ : : " : 6213″

The difference here is 266. But 6479″ − 6315″ = 0164″. The third term is the earth's circumference; to it bring the form-giving action into the association; and Professor Lynn gives us 0·0168 for the earth's decimal eccentricity. That this point is not all mere chance, the following evidence will prove. Both eccentricities are from Professor Lynn. The moon's, at special request kindly given me, by him—

Moon's Eccentricity.		Earth's Eccentricity.		A Day.		
0·0549	:	0·0168	: :	86164″	:	26367″
84420″	:	6315	: :	26367	:	1975 − 24395

But, as the earth has by her angular force and form, bodily, an impact with the moon to carry, and a bowel result, at the pyrotechnical ratio, another correction here comes in, by her moon's line off her own through space, as a burden affecting her.

Earth's Line.	Moon's Variation.				
84420″	18258″	: :	1975	:	427 + 24395 = 24822

This last quotient is but 44 miles off the earth's circumference by the powers so imputed at work to give it in swell.

If a person has a line of motion round a centre to make, and on that burden to swing an exterior object—always on one side only—although circularly for its points to the home centre—it must tend to enlarge the compactness of that main actor, unless the two circles exactly correspond in gravitation over a main centre to both.

Our chief points are demonstrated by the facts of observed astronomy.

TO GET THE EARTH'S AND MOON'S DIAMETERS.

By the recent proofs for the value in the working forces, under the axial angles and eccentricities, we are in good form to proceed.

Professor Lynn, in the papers alluded to, gave the earth's diameter, equatorially, at 7925·6; and that polar in 7899·2. The mean of these is 7912 miles. Also, Keith says that Herschell states it at 7912 miles as well.

Now, if two globes are made to act for the eclipse testimony in optics, by the rule of three direct, it is clear that the setting of their powers on the variations in the bowels, must be such for proportion, at the same rule,—the evidence, on facts, proving the design of the Maker.

Also, if the eccentricities of two globes are ruled by the weight of the ethereal medium, as impact to the form given, and by the bowel forces at work within; and, also, by the rise to aphelion, and fall to perihelion under that medium over a main centre to both—solar,—then, the effects on both globes must find results by the bowel-workings under the rotations in time, by these corrective boltings; so that weight to weight in ether, will appear by its valuers, the diameters, under the masses proportionate. Now, as by weight to weight, most direct, the two eccentricities must to their proportions decimal come in first of all. So,

Moon's Eccentricity. Earth's do. A Day.
0·0549 : 0·0168 :: 86164″ : 26367 — = 59797‴

Balancing over this correction, primal, is the difference in the line over the solar orb of the moon round the earth, to the earth's ecliptical line, by the moon's variation.

84420″ : 18528″ :: 59797 : 13112 — = 46685″

To this, a third correction is in demand. That, by the internal bowel forces giving the two axial angles, against the last of the free variations through the ethereal medium at impact, over the forces surfaceward only; and to be added, as in opposite lines of the system by confinement new.

Earth's Axial Angle. Moon's Axial Angle.
84420 : $6314\frac{28910137}{31472014}$, :: 13112 : 981.
46685 + 981 = 47666.

We have now to get the proportions by one mass known, under these results, by one time for the other mass; and then reduce it for the root or the diameter by our grand law over all. The masses impregnated with light from their mutual centres, to give the proportional results final for the eclipses, in a standard for all.

Moon's Times unity.		Correction.		Earth's Mass at 7912 miles.		Moon's Mass.
$2354219\frac{1}{2}''$	:	47666	: :	495289174528	:	10028144692.

The cube of 2156 miles is 10021842416.

Professor Lynn computed the moon's diameter to be 2160 miles, or but four more than here given. This exactly agrees with the previously attained diameter under the head of the micrometer on the common rule others use.

To secure these harmonies I have had to look through the bowels of globes by the direction of Moses for the forces at work.

By these presents the earth's diurnal time is made, as Moses taught, the first root to which all other globes are fitted under her mass power.

THE EARTH'S AND MOON'S VELOCITIES.

ALTHOUGH these have been found already on the rule the eclipses give us a claim of certainty for, yet it is a means of further corroboration to find another path leads to the same exact conclusion.

Moon's Mass. Earth's do. Moon's Velocity Proportionate. 1st Cor.

$$2156^3 : 7912^3 :: 2290 \text{ miles} : 113174$$

Moon's Eccentricity. Earth's do. 2nd Cor.

$$0{\cdot}0549 : 0{\cdot}0168 :: 113174 : 34632 - = 78542$$

Earth's Ecliptical Line. Moon's Deviation in Space. 3rd Cor.

$$84420'' : 18528'' :: 78542 : 17238 - = 61304$$

Earth's Axial Angle. Moon's do. 4th Cor. Earth's Velo. Pro.

$$84420'' : 6314\tfrac{2}{3} :: 17238 : 1289 + 61304 = 62593 \text{ miles.}$$

The difference found from the last mode by the proportionate time in the rotation direct, is but 24 miles, although this mode so much depends on the exact accuracy of the astronomers' observations to seconds in several difficult points. The result commends their accuracy.

Although this is but a reverse mode to the last in arithmetical proof, yet we give a third for the times, also, by the same system, placing the eccentricities in the lead, by the evidence of the proportions in gravitation as these arise from the weight to weight of the two globes—loadings on their home hemispheres in contrast to heat.

Propor. of Moon's Eccen. E.'s do. A day.
0·0549 : 0·0168 : : 86164″ : 26367″ − = 59789″
84420″ : 18528″ : : 59787″ : 13124″ − = 46673″
84420 : $6314\frac{2}{3}$: : 13124 : 982 + 46673 = 47655

Moon's Mass. Earth's do. Moon's times.
10021812416 : 495289174528 : : 47655 : 2354165″

The difference from the observed time is but $44\frac{1}{2}''$ on the month.

THE DIAMETER OF THE SUN.

Demonstrated as it now is, that the eclipses are purposely designed to give the long-sought standard distance for all globes but the moon's, under Kepler's third law, to which end the moon's is *sui generis*, the laws of optics, by the Diagrams 9 and 10, clearly set before us a most simple rule for the above object; if we can first get by other means the moon's diameter and distance to the earth, and the earth's to the sun.

To corroborate each other, we also have this mode on distances to breadths with that of the micrometer for the sun and moon by parallax. We shall first of all test that for the micrometer both under the valuations of the astronomers and our own rule, by the standard total eclipses, that the moon's and sun's angle must be exactly alike at the mean distances. To do this, we may also remember that the now well known dense photosphere of light and flame, by ether, of the sun, must obscure the means to see the exact rim of his crust. We again quote Grant for the view of others.

Page 15, "Another striking result which Laplace derived from his researches was the value of the solar parallax. Among the equations of longitude he found one involving that element, and varying with the angular distances between the sun and moon. The coefficient of this equation, when compared with observation, was found to give 8″·6 for the mean value of the solar parallax. This result agrees with the mean of those obtained by astronomers from observations on the transit of Venus in 1869."

At page 211, this point is taken up in full. After an introductory paragraph respecting the certain value of Kepler's third law if the earth's true solar distance could be secured, he says, "An accurate knowledge of the latter is indispensable in reducing the true positions which planets would occupy if seen from the centre of the earth. These results may obviously be all derived from solar parallax, which is expressed by the reciprocal of the sun's distance from the earth."

He then gives some of the valuations of more ancient savants,—Ptolomy, Hipparcus, &c., the latter obtaining 3′. This was held true to Tycho Brahe's time. Kepler gave it a searching inquiry, and found that probably it was less than 1′.

He further speaks of Cassini's mode by the eccentricity of Mars. Also, the searching by the Academy of Science (French) at Cayenne in Africa, of Richer; while Cassini, Roeneux, and Picard observed that planet at different places in France. So he says, "A comparison of the positions of the planet, as determined by these observations, showed that the effect of parallax was insensible, whence it was inferred that at the utmost, it did not exceed 25″. This gave 10″ as the value which could be assigned to the solar parallax."

However, we gather, the astronomers were not satisfied, and hence observations to this end were made on the transit of Venus in 1761, 1769. Also, that more lately the Governments of Europe sent out expeditions, which came to this conclusion:—

"That those of 1761 were insufficient by imperfect observations, and by a comparison of the results of those of 1769, 8″·7 and 8″·5 became the probable limits of the solar parallax."

"A comparison of the value of the solar parallax assigned by observations of the planet Mars with that obtained by the more accurate method of the transit of Venus did not lead to so close an agreement as might have been expected from the advanced state of astronomy."

So, being at sea again, Mr. Henderson goes to the Cape of Good Hope to make observations on the planet Mars in 1832. Simultaneous observations of the planet were made at Greenwich, Cambridge, and Altona.

"A discussion of all the observations gave the solar parallax a mean value equal to 9″·125. This result forms a nearer approximation to the generally-acknowledged value than either of those assigned by Cassini or Lucalle; but still it has not satisfied the desire of further research."

The fact is that by such means the accuracies required were so great that no two observers would agree on so nice a point.

I have given all this account of the many efforts in vain to satisfy men that their methods may come into contrast with the simplicity for the accurate security of the point, by the help of the designed eclipses, and the Biblical synopsis of law, at the kindness of Jehovah to attest His covenant at weight by measure, and so prove the Bible to be an inspired work on all points, and also for human satisfaction on science of all truth.

Since these, two more modern transits of Venus have been tried for this end, and in a paper entitled "The Results of the British Transit Expedition," by Professor Proctor, B.A., which appeared in the *Contemporary Review*, we get a curious idea of the more-cooks-spoil-the-broth adage than anything else respecting the transit of 1874; and of that of 1882, I believe it was so confused that but little was said about it, while lecturing astronomers have been going about with the earth's distance stated at 91,400,000 as of before.

By my diagrams and the expositions for the eclipses, the moon's micrometrical angle must be at par the same as the sun's.

Let us see what we shall get for the solar distance:—

Earth's Dist. Solar.	
2nd term, 87021513 ms. log., . . .	7·9396257
3rd term, sine of half angle, 15′ 36″ log.,	7·6556132
	15·5952389
1st term radius, ...	10·0000000
Sun's semi-diameter, 393760, ...	5·5952389

This gives 787520 miles for the solar diameter. So far on this point. Next, the one corroborative by the rule of three direct and double.

Moon's Orbit.		Earth's Orbit.		Moon's Diam.		
1497554	:	54699237	: :	2156	:	787494·0753576

By the double Rule of Three—

Sun's Diam.		Earth's Diam.		Earth's Orbit.		Moon's Orbit.
$787494\frac{1}{4}$	:	7912	: :	546992367		
× 7912		× 2156 Moon's diam.				
6230056484	:	17058272	: :	546992367	:	1497554

The proofs are perfect for the order of the settings. But the eclipses, also, give us this mode, following moon's diameter, 2156 × 365 days = 786940. The overplus time, 6 hours 9′ $14\frac{1}{2}$″ or 86164″ for the day-standard to all times = 22154″; and for this we have to add 554·29168, making the sun's diameter $787494\frac{29168}{86164}$ miles. A very accurate correction for the two half-seconds of Professor Lynn on the earth's and moon's periods would reduce this to a pure square of the circle.

Now, without the other corrections before used with it, we can corroborate the value on the use made by the eccentricities of orbits closely enough.

	Moon's Distance.		Earth's Distance.		Earth's Diameter.		
	238247	:	87021513	::	7912		
Moon's Eccen.	× 0·0549		× 0·0168 Earth's Eccen.				
	130787623	:	14619614184	::	7912	:	884346

This is but slightly over the solar diameter given by Professor Dick, but we know that other corrections are in demand for reducing it. Then, on the rule found by means to get eclipses—

Moon's distance, 238247 miles ÷ 2156 miles = 110·1087
Sun's distance, 87021513 „ ÷ 787495 „ = 110·397063
Diameters, 2156 : 787495 :: 1087 : ·397080
Distances, 238247 : 87021513 :: 1087 : ·397031

No possible demur can arise but that these are, by eclipse rules, true to optics.

But we will look at the degrees in their graduated scale of procedure, by which astronomers of modern days have been coming toward this :—

Table 1.

	Sun's Diameter. Miles.		Moon's Diameter. Miles.		Proportions.
By Keith,	886149	÷	2144	=	413·677
„ Dick,	880000	÷	2183	=	407·1519
„ Lynn,	850000	÷	2160	=	393·1220
Ours, .	$787494\frac{0753567}{1497554}$	÷	2156	=	$365{\cdot}554\frac{0753576}{1497554}$

2156 : $554\frac{0753567}{1497554}$ :: 86164″ (a day) : 22160″ = 6° 9′ 10″

We will look at the proportions at other rates.

Table 2.

	Diameters— Miles.
Keith's distance, Sun, .	95,000,000 ÷ 886149 = 107·182027
Moon's distance, . .	236,847 ÷ 2144 = 110·1007
Dick's Sun's distance, .	95,000,000 ÷ 880000 = 107·740000
Do. Moon's distance, .	238,800 ÷ 2183 = 109·0853
Lynn's Sun's distance, .	91,400,000 ÷ 2160 = 110·1233

The results by both circles approach closely to our own, although by entirely different modes to find them,—thus at least fully approving the eclipses to be the means to get the standard by optic law. For if these are too much on the distances, so they are proportionately, especially Lynn's, on the diameters to measure them.

The close setting of the earth to 22½° for the reactions at growths, for the two halves of the unit under 7 : 22, for the root by 23° 27′, for her ecliptical reactions to just allow enough room for the sun and moon to come in to get compensations between the three for the standard is presented, as between the two diameters.

Earth's diameter, 7912 miles ÷ 2156 (Moon's) = 3·1444.

This is very close to the square of the circle true, and the 3·1416 used by engineers, &c.; or even the 3·1415926 * of the endless fraction, by using tenths instead of, as Moses truly taught under gravitation, "sevenths."

This, also, adds to the evidence that the earth was the early standard for all, and by the following, that the sun was fitted to take her place, central in ether, when she was grown for it—

787494 ÷ 215600 = 3·140694.

For the moon had not to work to the sun direct, but to the earth under him, so we use the decimals. By these evidences we are, now, in a position to test our distance for the sun in respect to his horizontal parallax by the moon's.

Sun's Dis.	Moon's Dis.	M'n's Hor. Par.	
87021513″ :	238247 ::	3625$\frac{1}{7}$″ :	9·32836393$\frac{2}{7}$
87021513″ :	328336393″ ::	60‴ :	27th of a second at 60 parts.

So, the sun's horizontal parallax is found by the eclipses used for that purpose, they were set at, in 9″ 27‴.

Then—

2nd term, moon's distance, 238247 miles, log.	5·3770274
3rd term, radius, ...	10·0000000
	15·3770274
1st term, sun's distance, 87021513 miles, log.	7·9396266
Sun's horizontal parallax, 9″ 28‴ . . .	7·4374008

But so nice a point is this by the tables, that 9″ for the parallax would give us 91004000 miles for the distance of the sun.

Thus, aid by the Mosaic synopsis, through faith in it to be the infallible word of God, securely attests all that was before found by astronomers as near correctness, but secures certain evidence on all astronomical facts *sans* dispute; and to be seen "good" by such evidence constantly.

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* Simpson and Playfair, in Bell's "Elements of Geometry"—"The Square of the Circle."

We are, now, at liberty on eclipse law to use the most direct estimate for the sun's diameter.

A Day.		A Year.		Moon's Diam.		Sun's Diameter.
$86164''$	:	$31472014\frac{1}{2}''$	::	$2156''$	:	$787494\frac{30246}{86164}''$

Also, the fact that the sun's parallax is so close to 10″, is an evidence to his being by his force of gases, over all the properties on change the refiner for time to time.

Earth's velocity in space per hour—

62569 : 2290 (moon's) :: 3425″ : 125‴
Earth's vel. 31472014 : 2354219 (moon's) :: 125″ : 9·11029211
As compared with $9\cdot\frac{32136393}{87021513}$.

The evidence is of a complete demonstration.

THE CENTRAL OR SUN'S AXIAL ANGLE TO THE EARTH'S.

THIS point involves two others for the regulation. If the sun had to work alone in ether he might have the exact seven degrees to carry, bodily, the square of the circle by. But to show it between three, and to rule the earth on Kepler's third law for her standard distance to all other stars; while the moon is reduced to the earth for the rule of three direct, he has to make a concession, which the astronomers call 7° 20′ by observation, and we, herein, have found it in 26492″ = 7° 21′ 30″.

The overplus to the 7° is thus very close to the 22 by minutes of 7 : 22 the square on fractions. But this to the over-all action of a free, fluid, firmamental heaven, carries a proof that he is the central ruler for all squares of the circle, by all around him, as the ethereal heaven must work it perfectly over any body which has the heaviest mass; let what other bodies may be in that heaven as well.

The responses of a medium by all explosives or other lower chemical results submit to the rule set in the active subject for its first returns, then settle to law. To this angle the earth has the nearest possible to the highest square of magnetic conduction, or 23° 27′ to 22½° standard.

We can submit this point of the solar angle to another test: under the earth's period, as the one to be regulated by him, and as Moses taught, and by the decimal nucleus we ascribe to the earth, and her angle observed for the power to find the sun's. Thus proving the earth had a right to her name in the fluid seed state before light developed her form for rotation.

Earth's Period.		Earth's Nucleus Valuation.		Her Ecliptic.		Sun's Axial Angle.
31472014½″	:	9876543	: :	84420″	:	26492·21151932
Moon's Equal Times.						
2354219½″	:	9876543	: :	$6314\frac{2891063}{31472014\frac{1}{2}}$	:	26492·1592250
31472014½″	:	2354219½″	: :	21151932′′′′′	:	1582240′′′′′

Here again, by the observed facts of astronomers, we have almost exactly a pure square of the circle. In fact, to 10010th part of a unit of light, normal. We will now test the approaches of others to these results.

Moon's Angle.		Sun's Angle.		Moon's Times.		Earth's Nucleus.
Keith, 6180″	:	27000″	: :	2340885″	:	10226682
Mayer, 6300″	:	26400″	: :	2354219½″	:	9865300

Professor Lynn did not give any angle, in the papers I quote from, for the moon.

But, again, by other observed tests of proportions.

Earth's Ecliptic.		A Day.		A Year.		Earth's Nucleus.
Lynn, 84420″	:	86164″	: :	31472014½″	:	9841994
Ours, 84420″	:	$26492''\frac{10226682}{31472014\frac{1}{2}}$	: :	31472014½″	:	98765406
Moon's Axial Angle.		**Sun's Axial Angle.**		**Moon's Times.**		
$6314''\frac{28910637}{31472014\frac{1}{2}}$	:	$26492''\frac{1592250}{2354219\frac{1}{2}}$	: :	2354219½″	:	9877149

These exact correspondences, by the circle of facts, fully approve our principles to be true.

Now, our tables allow for reactions on a constrained limited circle. Sine—9·849485 for 150515 × 2 = 301030 entire—what is Jehovah's more perfect one by light to make growths, and so need no compensation of error.

Working by starting claims.

10·000000 − 9·876543 = 1·23457 to reach the centre-holder in weight.

And 10·00000000 − 9·87654321 = 1·2345679.

Reaction, 10·000000000 − 0·987654321 = 9·012345679.

The ellipse is always a working reality to the system. But, except to design in the setting, must be always true, to one value only, as in tables we make.

THE SUN'S ROTATION.

WHILE seeking this on the rules by law Moses gives us, or rather Jehovah through him, and which we have already proved to be correct by facts, also we find this agree with observation very closely; and at the same time, by that mode approve, that this globe is the solar centre to all; that is, that Moses is right to say *sui generis* of him "The Sun."

To fly afar off from him by the pressure of ether, involves that globes to be seen at all may be very large; and, therefore, constructed on very attenuated threads solid to carry the electrical apparatus of their light; but size does not prove weight to the square foot of ether that supports them apart.

Now, as *the sun*, we must ascribe to him the place in ether, and all swimming in its waves, that demands an estimate by his circumference to the axial angle he has, for the force against all the weight of the universe to keep him in rest; so that light from Jehovah's throne shall still force him round on that variation from the earth's as the rule for the power, subject to the magnetico-electrical line of the masses making his body, for the fact as they were first laid in him. So, $787494 \text{ miles} \times 3\frac{1}{7} = 2474981$ miles, his circumference, over which the universal firmament rests to proportion the velocity gained under gravitation against the heat awakened for motion along the ecliptical line he has.

We will, on these principles for the ethereal heaven—as of entire fluid liberty, for the perpendicular of heat in the sheer boil at 90°, or radius to 90° from it, equatorial, or the right angle, resisting the bowel magnetical conduction of heat in the solar selection of material under chemical changes—test the point at both the astronomers' angle and our own—

The savants, $324000'' : 26400'' :: 2474981'' : 201634''$

$2474981'' - 201634'' = 2273347''$ sun's rotation.

Ours, $324000'' : 26492'' :: 2474981'' : 202368''$

This force, as quickness over the value of the circumference under ethereal pressure for the rule over all proportion to rest, gives us 2272616″, his rotation in 26ds. 6hs. 12m. 32s. The observed time is stated, as by the spots, to be 25ds. 10hs. My difference is but 12′ 14″ from the first valuation, and but 30hs. 8m. 36s. from that observed. The rule, at least, is attested. If in our last paper we had taken 26492″ to find the decimal nucleus of the earth, we should have

$84420'' : 26492'' :: 31472014\frac{1}{2}'' : 986292$

But this fact only the more declares the value of the Biblical synopsis on the point "without form," that is, to the absolute geometrical or arithmetical standards; yet, exactly fitted to be "the earth" to work on such concessions with two others. And

6314″ : 26492″ :: 2354219½″ : 9876098″

and there was a fraction higher for the divisor.

But we have now a very remarkable fact to deal with from the astronomer Dick on our present point. In his "Celestial Scenery," after telling us in the text (p. 206) that the axis of the sun round which his revolution is performed is inclined 7° 20′ to the earth's ecliptic; and that the sun's time of rotation by the spots is in twenty-five days ten hours, he puts in between this, "By calculation, also."

And in a note gives as his calculation.

"The following is the proportion by which the true rotation is found.

"365d. 5h. 48m. + 27d. 7h. 37m. or 392d. 13h. 35m. is to 365d. 5h. 48m., so is 27d. 7h. 37m. to 25d. 9h. 56m.* = true time of the sun's rotation." Now, by this rule, the two sums added for the divisor are the earth's and moon's periods—or the two globes the sun has, as Moses taught in the first part of the fourth day, to wield around him, for the first efficient mode to regulate motions entire of the earth. By the times Lynn gave, this quotient is 25d. 10h. 4′ 32″. Now the difference is not great any way, and if another small correction has to come in to give the sun the higher swiftness, one thing is clear, that somehow this astronomer found this spirit of fellowship between observation and mathematical rights of weight to measure,* under the rule of three direct in gravitation. The corrections further, I think, are far more likely to belong to the earth and sun than the sun; and the fact that his axial angle is at 7° 20″ from the earth's shows that he was made to fit her, on that degree of difference; not she him, except by *à priori* claims on use for a future state with him as the consort, in particular, to her. Spots amidst his photospherical changes are but uncertain, although leading evidences in aid.

THE PERIODIC TIME AND ORBIT OF THE SUN.

This is our next object to attain.

While for the rotation we get the velocity in time for the course of it, it is clear that by the columns of ether to regulate it, under light, the exciter to motion, he must tend to a motion through space, which has, also, been attained by observation as fact. Also, a just law has been presented to us, by even Professor Dick, intelligent to law to the extent to claim, that—by weight on weight to the earth by his freedom to act for the eclipses by Kepler's third law, while the moon is reduced under the earth's force to wield her to show the standard—he moves.

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* All honour to the American, although how he jumped to it remains untold.

Now if the earth is made equal, as she must, to wield, by her heated gases radiating, the moon, to keep her off the gravitational liability to collision; then, all the sun needs, is mass to mass power also, by his radiating gases eliminated in his body, to keep the earth herself off, that being then, by the certainty that all bodies must receive, to lose power again by matter into matter. These resources under security to the ether superior draft to other lines by ether itself alone, to keep up its gentler motions.

Now, Kepler's third law, well approved by facts, gives as the cubic power for the distance, under ether, as a circular mass over all; supplying, as air does to birds, or balloons, the agency to force the rise assisting the expanding bowel workings of heat to make light gases confined to the ethereal colder claim to fall centre-ward. So this medium acts on its proportional spherical force to the cube root absolutely. Then, on the principles last found and revealed in the word, for the primary connection of the sun, earth, and moon, as well as by the independent necessities for eclipse reactions to direct order, between the three, to find the sun's orbital force, we must base it by the sun's mass to the earth's on Kepler's third law, by its real standard mass to mass, or the cubes of the diameters to the square of the times, known first by observation, or other means for one. Times are also the test to sight "good." The earth's orbital time and velocity in it, we have for our third term well secured. The action, then, of the draft of all other globes on them, will become but common cooling valves to both globes, and by their draft on the sun, as they were made in time, become the safety valves to secure the earth, and reduce her into a state of peace in her crust and bowels, from the earlier certain cataclastic operations by the solar immensity geologists observe have taken place in the geological changes, especially after the first coal developments in floræ. Our rule is then clear and certain. Thus by

Moon's Orbit.		Earth's Orbit.		Moon's Diameter.		Sun's Diameter.
1497554″	:	546992367″	: :	2156 ms.	:	787494·0753567 miles.

A day.		A year.				
or, 86164″	:	31472014½″	: :	2156	:	787494·30246 miles.

Earth's Diameter in miles.		Sun's Diameter in miles.		Earth's Period.		Sun's Period.
7912^{3}	:	$787494^{3}\frac{30246}{86164}$	: :	$31472014\frac{1}{2}^{2}$	:	31251170688^{2}″

Then, by Kepler's third law for his distance from the centre of his orbit, on the virtual curves of his line.

$31472014\frac{1}{2}^2 : 31251170688^2 :: 87021513^3 : 8661393563^3$ miles.

Sun's distance from his centre of orbit:—

$8661393563 \times 2 = 17322787126$, diameter of his orbit.

$\times 3\frac{1}{7} = 54443045253$, solar grand orbit in miles.

$54443045253 : 17322787126 :: 31251170688 : 9943554310$.

Solar impact power proportional on ether. And—

$\times 3\frac{1}{7} = 31251170688''$ again. All proved.

This impact value is logarithmic to the decimal setting he has for his concession-line, to that abstract for one only.

So,—$10000000000 - 9943554310 = 56445690$.

His orbit runs on final decimal decisions, and close in the integral current to those of his bride. Thus proving that from the earth's fluid nucleus, as all made to start,—the times, from the beginning to that for Edenic peace to man,—was one to completely exhaust all the possible exchanges the decimal ratio of full compensations between gravitation natural and the magnetical inlayings, by light for the attainment to reaction, equal in all the universe, which was to be determined by a fit soil for man.

Thus, typically representing a system in which all fulness dwells. Nor is it typical only, but as to physical resources for perfect manhood, actual also; but under the second covenant,—Of a perfect spirit toward righteousness divine, kept. God the giver of the life system by His covenant Word.

The last quotient found is very close to what we shall find his yearly rate is.

Then the number of years the sun takes to revolve round his centre in space is—

$31251170688'' \div 31472014\frac{1}{2}'' = 992$ years $30932304''$.

In round numbers 993 years.

The concession from the abstract rule of 10^3 is about seven years, or the root of the square of the circle very closely. The moon having to come in besides the earth. Then—

Sun's Period. Earth's Period. Sun's Orbit. Yearly Rate.

$31251170688'' : 31472014\frac{1}{2}'' :: 54443045253 : 54827745$ miles.

This gives to a day a velocity of 150107 miles, and $6271\frac{1}{2}$ per hour, with $1\frac{2671}{3600}$ per second.

Now, by the rotation, his velocity to ether is—

2474981 miles (cir.) $\div 2272616''$ (rota.) $= 1{\cdot}202365$;

or, about a mile and a-tenth per second. Or of $1\frac{1}{10}$ by light, as the force in units against dual globules of ether; thus demanding clearly the cold fall of ether to give the impulse to overcome its own resistance by impact, and showing how finely the ratios are reduced over his body to the normal limit.

Professor Mitchell states,* that M. Otho Sturve calculated the sun's annual rate to be about 33500000 miles. This does not allow the sun a mile a second, which is clearly impotence in power to time at pulsation.

Other corroborative evidence for the sun being solar, decimals make, and to work the mass extremes, is to be found, thus—

Sun's Orbit. Moon's Orbit.
$$54443045253 \div 1497544 = 36354{\cdot}967137$$

This quotient is a close multiple of the earth's rotation by 10^2, she being set between the balances of these two globes to give the standard. For which we have to trace, by all the properties of known physics, right through the bodies of these globes.

Otho Sturve's estimate by observation will fail utterly here, and the point by such means is admitted to be the most difficult of all.

On these roots we further proceed for proofs of the law.

A day.
$$7912^3 : 787494\tfrac{30263}{86184}{}^3 :: 86164^{2''} : 85559368^{2''}$$
$$31251170688'' : 31472014\tfrac{1}{2}'' :: 85559368 : 86163{\cdot}31058316892$$

The discrepancy is less than one-hundredth part of a second. Thus the principle is proved that the force globes attain, in their rotations, by the interior magnetically rifled layings for heat to be chemically developed across the colder pole, solid, is the same as that for the revolution.

The following calculations will show us how the figure 7 becomes the automatical head over their tabled bowels:—

Moon's Period.	Earth's Period.	Her Orbit.	
2354219½″ :	31472014½″ : :	546992367 :	7312381208
〃 :	(sun's period) 31251170688″ : :	54443045253 :	722706044845182
〃 :	〃 : :	(annual rate) 54827745 :	727812855778

$$727812855778 \div 54827745 = 13274$$

Earth's period—31472014½″ : 2354219½ hrs. : : 13274 : 993 yrs.
Sun's period—31251170688 ÷ 〃 = 13275 †

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* "Stellar Worlds," page 242.

† This set of results is so close to an absolute astronomical square of the circle, that it has been retained on observed facts, shows that if we had not had the true one, it could not be so retained.

This is near the months to a year × 1000.

Earth's solar distance. Moon's from her.
87021513 mls. : 238247 mls. :: 987654321 : 2703994″
Sun's from centre of orbit, 〃
8661393563 : 〃 :: 98765432100 : 2716720″
87021513 : 〃 :: 12345678900 : 33799917
8661393563 : 〃 :: 1234567890000 : 33958980

3379917″ − 2354219″ = 31445698, close to the earth's period, and 33799917 − 31472014″ = 2327903, very close to the moon's times; or as close as some liberty for three in one to the abstract ratio will allow.

The relatives by the orbits to months are—

Moon's Period. Earth's Period. Earth's Orbit.
2354219½ : 31472014½ :: 546992367 : 7312381208
7312381208 ÷ 546992367 = 13mos. 10ds. 1h. 21′ 55″
31472014½ ÷ 2354219½ = 13mos. 10ds. 1h. 32′ 1″

Thus, the orbit we have found for the earth is proved to be correct to the earth's force found from the sun's mass by Kepler's third law on its root to mass settings for her own power to wield the moon, her servant, and to keep her clean of smokes.

By altering the sun's diameter to that by Professor Dick, we have by the earth's—

$7912^3 : 880000^3$ ms. $:: 86164^2 : 101069576^2$
„ : „ $:: 31472014\tfrac{1}{2}^2 : 36916650134^2$
$36916650134 : 31472014\tfrac{1}{2} :: 101069576 : 8616407909335876$

The general balance remains.

But by the rule under eclipses for the lunar diameter we should have—

Miles.
31472014½″ :: 86164″ : 880000 : 2409 moon's dia.

This for the moon's diameter is far outside all observed valuations. Also—

Sun's Dist. from Centre of Orbit in miles.
Periods $31472014\tfrac{1}{2}^{2\prime\prime} : 36916650134^2 :: 87021513^3 : 967880388^3$
$9678880388 : 238247 :: 987880388 : 2431228$

Compare these last proportions with those gone before, and the harmony is just so lost as to show how.

But both the sun's and moon's diameters we have verified by the rights to sight of the micrometer under eclipse necessities.

The fact, also, that the sun and moon have such closely-alike forces of rotation in time proves the mass reduction of his powers to be *in extremis* to meet her low capacities to fit their respective offices over the earth, their object.

FIRST PAPER OF ADDITIONAL EVIDENCE ON ROOTS.

BOTH the sun and earth by the lunar diameter give responses to show a close adherence to the square of the circle at its division direct.

Table 1.

Earth's diameter,	7912÷2156=3,1444	
Sun's do.	787494÷215600=3,140694	
Earth's circle of time, . .	31472014½″	Obd.
Sun's do., . .	31251170688″	Found by the last.
Scholars' square, . . .	3·1415926	Lost in a myth.
Ours do., . . .	3·142857⅐	Perfect.

The sun by the lunar division requires decimals for her, two, to give the full report as true to order for eclipses, and then receives six decimals—as the true value does, abstract,—the difference being still required for concessions to his consort's values.

The standard settings of the earth and sun are here apparent, and the moon's place and degradation from liberty in full of Kepler's third law clearly attested.

Table 2.

No. 1. Now, sun's diameter ÷7912 (earth's) =99·4200

The arrangement for these two globes to run as near to the full decimal current of the tables for reactions of two by a third is evident.

" 2. 100·000 − 99·4206 = 000·5794 difference only.
" 3. 3·142857⅐ − 3·140694 = 0·002163⅐
" 4. 2156 ÷ 22 = 98
" 5. 7 : 22 : : 2156 = 6776
" 6. 22 : 7 : : " = 686
" 7. 22 : 7 : : 2156^3 : 3188758496
" 8. 7 : 22 : : " : 31497124736
" 9. Sun's period— 31251150688″
" 10. 31497124736 + 31887584960 ÷ 2 = 31692354848

No. 3 in our table gives a remainder by the fraction of only 7⅐ from the moon's diameter. No. 4 sets, by the square of the circle multiplier for a divisor in reaction, the first figures of the integers at their master line.

No. 4 not only gives us the moon's circumference, but places that quotient, as of two sevens between two sixes. While the reverse action places an 8 between the sixes; 8 being the integer carrying the lowest solid cube; 6 by 7 the full flowing tides. Then 7, 8, and 9 show how certainly the mass value of the moon returns a reaction through the bowels responsive to the solar period in time. However, if I had used Professor Lynn's lunar diameter, the results of the last four equations would not materially alter, as

7 : 22 :: 2160^3 miles : 31672758857

Again—

Table 3.

2156^2 moon's diameter = 4648336

7 : 22 :: 4648336 : 14609056

22 : 7 :: „ : 1479016

Moon's orbit found = 1497554

Mean diameter of the orbit = 476494

1·000000 ÷ 7 = ·142857$\frac{1}{7}$

This globe's whole force to light and ether, as a true sphere to them, but reduced to the root square to work as by the earth's order, is here clearly indicated to carry the root to show the standard to the square of the circle very closely by the square of her mass.

Although the sun differs in but 22 hours, 6 minutes, 43 seconds from the moon's rotation for his own; yet, it takes the moon 347½″ to pass over a mile of her surface on the rotation of her back side over points of space. The earth has to do $3\frac{384}{86164}$ miles in a second, and the sun $1\frac{2671}{3600}$.

But the difference in these globes is clear by the fact that the moon only librates toward her centre, so that to the earth's face she does virtually nothing as to rotation. Her final pendulum plan is clear, by the pulsative force of light, over inertia of gravitation in rest.

Light therefore must exist in flow to get up living gravitation, and keep it up.

We propose next to consider a few points respecting the eccentricities of orbits.

One point is, that the earth and moon's eccentricities form the right standard to show the engineering ratios, fit for all other planets. Now, this is remarkable, and a most important fact against the theorists for motion from perihelion to keep up by mere velocities. That while all velocities differ, and the moon's is least of all, and her form admitted to be very close to a pure sphere, her eccentricity is very high indeed. Only smaller planets outside the earth have very highest demands to sink so very much nearer to the solar fountain to recover the life waters than at aphelion proportionately.

Now, if the moon be so loaded in weight, and, also, chemical-deadness to electrical change on the side nearest the earth, with a sufficient advantage to one edge to throw her forward in space in one direction always, with a surface respondent freedom of escapement on the top, like a boiler over a fire, then, all the contingent requirements are satisfied; and as the loss of her gases under the upper pressure of the ether on the obverse side to the earth will secure her boiling mass the power to throw off all the smokes on that side, these two needed points are secured,—a clean surface on that side nearest the earth, as a reflector of solar light, and the escape of the radiating fluids from her heats (as I narrated in an earlier work, under a peculiarly suitable state of the earth's atmosphere, I distinctly saw her from Roborough Down, on a frosty night*) away from the earth. Also, the low balance for her distance and simple class of rotation to points of space, only, to be equal to give but one revolution, at once secures the eclipses to her diameter; and the standard distance of the earth to the sun in the rule, that the earth's power for it, in rotation and revolution alike, is proportionately direct to the moon's rotation and revolution, as equal.

Now, if we find by the two eccentricities that this is so, under the square of the circle, abstract, now found, and the earth's period by decimal reactions, another evidence is seen of our system.

Table 4.

Moon's eccentricity,	0·0549 : 0·0168 ::	3·142857$\frac{1}{7}$	:	0·961748
Earth's do.	0·0169 : 0·0549 ::	,,	:	10·270408
Do. do.	,, : ,, ::	31472014$\frac{1}{2}$" E.'sp.	:	102846040
	0·0549 : 0·0168 ::	,,	:	9630798
	3·142857$\frac{1}{7}$ × 168	=		528·000000$\frac{1}{7}$

Can these approaching musical symphonies by the settings at law of these two globes be all a mere labyrinth of accidents, and mere curious coincidences? It must be a much more clever person than I pretend to be that could walk in them to find them out.

The last quotient is $7 \times 3 = 21$ less than the moon's decimal eccentricity at proportions, and on decimal proportions we claim all was designed by the Mosaic system; only, from abstract ratios as little as possible, to allow of three in one to do that standard between them.

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* In the second part of "Hints from the Dawning," with a drawing. The work is not at present in print. At that time I had no idea of these rules for it, to conceive it thereby.

Let us compare these ratios allowed for reactions between the earth and moon, with those the table calculators claim to be the lowest possible.

Table 5.

Secant and Cosecant,	10·150515	Ours, 10·270408 [*]
Sine and Cosine,	9·849485	0·961748
Full allowance,	0·301030	9·308660

This is that "make and setting" to the abstract square of the circle, almost exactly the same as that the table calculators use, as to the allowed fractions, by full orbits.

Then, on the time-power of the earth, we see her standard place is signified by the fellowship in the free-current difference of true life and fire for that wheel of the upper heaven to her office, as chief to Jehovah over all other globes, by 10·2846040 – 0·9630795 = 9·3215371. From Table 4.

Free life can find real liberty in law, above the sham life of an enforced liberty, or the galvanism of a dead table into a life pretence.

Compare the quotient, Table 4, by the moon's eccentricity.

Table 6.

$$308660 \;:\; 301030 \;::\; 0{\cdot}0549 \;:\; {\cdot}535\tfrac{132370}{308660}$$

$$549 - 535\tfrac{132370}{308660} = 13\tfrac{176290}{308660}$$

This is so close to the number of months and its fraction, as to be equal to 13 months, 13 days, 40 minutes, 12 seconds. Now, this is secured on the exact principle for the moon of the dead weight of a pendulum, by the clock's power to spring on in life, or that of a watch. For the eccentricities arise from the greater chemistry to side weight, or one hemisphere to another. So, the earth's place by the moon is proved again standard. Now, a body more circular than another, at the balance of its weight to a medium, will proceed more rapidly than one of another form for a slight correction. It is a question for engineers of projectiles.

Again, on these settings for balances.

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[*] By full orbits to entire reactions by eccentricities at contracts in dead weight.

Table 7.

1.—7 : 22 : : 2156^3 (Moon's Mass) : 31497124736

Earth's Ecliptic. **Moon's Deviation.**

2.—84420 : $6314\frac{28910637}{31472014\frac{1}{2}}$: : 31497124736 : 2355609710

Sun's Period.

3.—3125115014″ : $31472014\frac{1}{2}$″ : : 31497124736″ : 31741972″

4.—84420″ : $6314\frac{28910637}{31472014\frac{1}{2}}$″ : : 31741972″ : 2374413″

Now, while the first and third quotients run together on decimal sympathies of their leading integers, the second and fourth do the same. The first to the earth's and sun's period, the last to the moon's equal times and sun's rotation, and all on the rule of three direct due to the optical claims for the eclipses. Beautiful and harmonious, although curious facts, all speaking of the Mosaic history, as a true key to all science. But although the moon is a bond-slave to the earth for her make and setting, she is still, of necessity for it, as a free flying globe under chemical powers for all her impulses to ether and light; so we will test her setting and make thereby.

Table 8.

Angle of free reaction by ether. **Moon's angle.** **2156^2 diam.**

Radius, 90° = 324000″ : $6314\frac{28910637}{31472014\frac{1}{2}}$″ :: 4648336 : 90598

The mean diameter of the moon's orbit is 476494, and 4648336 + 90598 = 4738934—thus showing the current decimal flow in her bowels very closely, from action to reaction, between her duties.

Let us test her place by the square of the circle.

Table 9.

7 : 22 : : 4738934 : 14893792

22 : 7 : : ,, : 1507842

7 : 22 : : 476494 : 1497554

22 : 7 : : ,, : 151611

Here we trace her settlement on the ethereal radius to be, from reaction to action, on just the same value as that of tables, again, of 150515, but a little freer. Cutting off a figure from one quotient, or adding a decimal to the lesser one to allow for a true life-state, at a demand on thirst for eternal growths, at the Creator's supply of the power to keep up the heats from loss toward death, we have the mean of the last two quotients in 150683: and 150683 − 150515 = 168. This remainder, or difference, is exactly the decimal ruler of the earth's eccentricity, according to Professor Lynn, by observation at Greenwich, under 0·0168.

From the earth we can secure many such witnesses at law.

Her diameter is 7912 miles. Its square is $62599744 \div 10^3 = 62599$. This differs from her hourly velocity found only in thirty miles. It is Herschell's diameter, as well as my own.

The difference between $22\frac{1}{2}° = 81000''$ for the abstract root, between chemical sympathies and antipathies, for use at the designer's settings, to get factors to factors out of the boil of hemispherical equalisation to $23° \ 27' = 84420''$,—the earth's ecliptic for these sympathies and antipathies to work, so as to allow the sun and moon to come in for the standard,—is 3420″. Now, in the tables, 22½° has a column of difference—sine, 3048; tangent, 3572.

By 23° 27′ it is 2911 to 3135.

The mean value of the two first is 3310, and the two last, with more liberty for hemispherical contracts of variety, is 3185.

This places her standard to all, by the reactions of spherical trigonometry.

Again, if we divide $7912^2 = 62599744$ by 999, it gives 62662. If by 1001, it is 62527; the mean being found already. Now, this helps us to see, that ether, to be the competitor on final divisions to light, for the power as all units, must be all of dual globules; or the two at decimal finalities automatical and ever kept the same.

Again, by the square of the circle.

Table 10.

22	:	7	: :	62599744	:	19918095
7	:	22	: :	„	:	196742052

All the reactions of this, or any square of the circle, prove the need of a life-state for a figure more in one line as growths than the other; instead of by the cramped state of the tables of death, the same number six or seven figures, from the start to the end. So, equalising the number of figures, as we must to get the difference, we have 2438956. The sun's circumference is 2474981 miles; earth's circumference, 24866 miles. And the sun's hourly velocity, to the standard time, all have been derived from by us, is 6271½ miles; earth's, 62569 miles. So, the square, as the root to get a cube, finds the earth's diameter standard for both globes and all. So much is she more a force for others to be made by. Also, sun's diameter, $787494 \text{ miles} \times 2^2 = 3149976$; we have the first three figures of the earth's period and the two first of the sun's, while $787494 \times 2^3 = 6299952$, or a decimal multiple of the sun's and earth's velocities in space per hour again. This proves how correctly we acted in taking the hour for the standard between the day and the minutes to seconds, to get the distances of the sun and moon from us.

Now, the sun's circumference, 2474988, to 2272616″, his motion in time conquering ethereal pressure, shows that to the square foot in ether, his weight is by the difference 202372 heavier, only in proportion, or but a tenth more to the square measure in space. No wonder then for his intense brilliancy, as susceptible to light, the power, that illuminates him from God the eternal Father's supplies.

Table 11.

Circumferences, $2474981(\text{Sun's}) \div 24866\frac{2}{7}(\text{Earth's}) = 99\frac{13219}{24866}$

By orbits. $99{\cdot}290899894$

$24866 : 246992367(\text{Earth's orbit}) :: 13219 : 290786454$

Even the fractions across work closely.

We can, also, wisely compare some points between the sun and moon, on their mass powers to times rotative at the squares.

Table 12.

$$2156^3 : 787494^3 :: 2272616^2 : 15864451800^2$$

$$\text{,,} \quad \text{,,} \quad :: 2354219\tfrac{1}{2}^2 : 16434053535^2$$

$$15864451800 \times 2 = 31728903600.$$

This is very near the sun's period found, and has the first two figures of the earth's by Kepler's third law.

Also, to moon's angle of the axis under ether at work, for radius over all.

Table 13.

$$90^\circ = 324000'' : 6314\tfrac{28910637}{314720144}'' :: 16434053535'' : 320307731''$$

$$\text{,,} \quad \text{,,} \quad :: 15864451800'' : 309193595''$$

The mean of these two currents in time is 314720663″, when we get again a decimal relation to the earth's and sun's period in nine figures to theirs of eight and eleven. Thus proving the work the moon has appointed her from her start in time by God's hand.

The added value of these two quotients is 629501326, thus carrying a decimal multiple to the earth's and sun's velocity in space per hour again. Surely the inspired and sublime poet might well say—

> "Their line is gone out to all the earth."

If either of these is Professor Proctor's "dead globe," it is rather active in the "likeness of life." By our diagrams for the reduction of the square of the circle, we have six radii from the centre by six chords to arcs by radius, which at once chosen for the preference to break the equilibrium of rest, demands a line of choice in the nucleus state sympathetical in advantage to light to give the fixed rise, or a great Gulf Stream of hot advantage to any organical solid glŏbe, man, or insect. This involves the life state of a rise and fall wave between night and day of twelve especial wave variations,—the first royal number of Scripture data. It is at the mean of every 60°, whether of organisms, or of inorganical ether by their interior forces of life, set. Let us take the the difference we have found for the sun's wave of life on his first and constant motion; that of rotation by his axis between the cold circumference, and its life heats for that in time.

Table 14.

His circum. = 2474981" ÷ 202368* difference in time = 12",46571
His rotation = 2272616" „ 11",46568
Earth's day 86164"−24866" = 61298"
86164"÷61298" = 1",24866

The sun has his twelve of royalty; the earth proportions on one, and a fraction equal to the circumference. Also, the 61298 is near to the velocity per hour.

Table 15.

Earth's rotation 86164"÷24866 (Cir.) = 3,10566 or close to the square of the circle.

Earth's ecliptic to sun's variation 84420"÷26492" = 3,04944
Radius to the earth's ecliptic 324000"÷84420 = 3,070740
Her circumference by the moon's 24866 ÷ 6776 = 3,4538.

This is making, in the last, the moon as low to the earth's as of a cog-wheel estimate, or direct as before. The sun, 324000"÷26492", his axial angle, = 12,6096, showing his royal claims over all by ethereal pressures, and therefore to gravitation entire, or at work by all in it,—the true sun of the universe above all by light new.

Again, by the earth's circumference to the moon's day

24866 : 6776 :: 86164 : 23479,18452

The quotient indicates the moon's times, when this is multiplied by the force of light at 10^2 very closely. Whether the solar axial angles be as the astronomers give—7° 20" = 26400", or as I have calculated for it in 26492" I do not undertake to determine, as my mode may need a small correction. The difference is but small. But I will give them the advantage of the following points.

Table 16.

3·142857$\frac{1}{7}$ × 168, earth's eccentricity by the moon's on 549 direct to the square of the circle being 528,000,000; if this be divided by 26400" we get 20000, for 26400" × 2 = 52800. But it may be too abstract at use. Whether needing a slight variation to get in the little moon or not, the evidence is of that in a tabled currency between 1·000000 and 2·000000 for all in successions.

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* See page 171, "Sun's Rotation."

Table 17.

Now $90^\circ = 324000''$: $6314\frac{28910637}{314720143}''$ :: 528 : $10\frac{94277}{324000}$

By the astronomers' valuation in : 549 : $10\frac{226890}{324000}$

The 549 being of the 0·0549 of the moon's eccentricity observed. Hence we have it to the purpose for reaching the Edenic acmé for pure reactions of steadiness between natural and magnetically attained reaction of time's inlayings by light, new for ever. The following sum is, also, significant.

Table 18.

Square of the circle 3,142857$\frac{1}{7}$
25200 = 7°

628571400
15714285
6285714
600

Radius 324000)$\overline{79200,000000}$(244444,144

Thus, if the sun had not differed to suit the eclipses with the earth and moon, but had an exact axis for his solid pole to 7°, the square carrier, he would, to ether, have for ever sent off gases of less variety, and unfitted for the earth's state to assimilate them, as the fours, and $12 \times 12 = 144$ constant show in regard to sameness, by adding cyphers to remainder or multiplier, light.

Still, the solid index is but $2^3 = 8$ from the earth's diameter $\times 10$,—that is, her chemico-electrical state, to suit the eclipses required to be so much, as of the value of the integral cube more contractile. Now, 22 is the multiplier direct by 7 divisor for the square of the circle, and this at progress to get life in at all under 60 minutes, the hour standard, to 60 seconds for rotation of the pulses, then $22 \times 60 \times 60 = 79200$ again. Also, the sun's diameter runs on a rather more difference to 79200×10. His chemico-electrical make required to swell on the same direct root, as the male, that hers did to contract as female to him,—a beautiful realisation.

But the sun has to carry the extremity of the tabulated order for the bubble swells of heat at growths,—the moon, the *sub reductio* right in space, to break the bubble and freeze the matter into crystals of ice. So we get a proof of his place for his office, thus—

$2474981 - 244444$, current to life $= 30537$

This being closely responsive, but of a true life-rate rather higher to the 301030 of the tables for his extreme place over the earth's growths since he was made. But the $2^3 = 8$ contraction above sets her first as the made standard for place and time. Now, the earth's response for the claim of the moon to hold the mean place of the squaring of the circle in chill is, earth's diameter, 7912 ÷ 2156 (moon's) = 3,1444, or close to the square of the circle.

The earth's claims to defend her lady's-maid from the aspersions of any astronomers, that she is dead to any duties she was made for.

We will now trace some points respecting the earth as to her standard magnetico-electrical make, or the interior settings of her bowel-system thereto to $22\frac{1}{2}°$.

Table 19.

Radius, 324000″ : 3·142857$\frac{1}{7}$ :: 81000″ : ·785714·92571$\frac{3}{7}$
„ „ :: 84420″ : ·818888·28800 for ever.

Here we find that the earth's observed ecliptic angle carries, by radius to the square of the circle, for her multiplier,—as the representative of pure light from God's "Let light be" in covenant, or current to keep up life-heats for ever against death-cold by attraction to utter rest,—the first two figures of the standard value abstract to equality, or hemispheres of magnetical sympathies to antipathies, and then fills in for ever with the solid value of the first crystallised cube, which is standard to all geometry in $2^3 = 8$.*

The Sabbatic perfection of the earth's axial angle as a divine projection for the standard may be thus proved:—

Table 20.

324000″ : 3·142857$\frac{2}{7}$ :: 84420·0000 : 8188889261·3600 forever.
324000″ : 3·142857$\frac{3}{7}$ :: 84420·000000 : 818888963333·108000 „

By altering the ratio of the square, which here represents light at a multiplying power to the earth, we never lose the attainment of the reaction for an exact rotation at last, by adding cyphers at that end light comes into the sun by,—that is, the eastward, if we are looking northward, or toward the head of the mass developing, which is as of a stand-place on the solar orb doing it.

No evidence could be more perfect than this one as to the square of the circle being secured from Moses, on the Sabbatic figure.

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* There are no solid metallic cubes so plentiful as those of mundic, or sulphuret of iron. In small sizes they turn up by the million, often quite perfect.

But this, too, must be noted as a need to this. The subject must be equal to division by 7, without fractions in tenths coming to lead to chaos or the boil, under radius by ether, absolute. Thus, the Sabbatic making is proved to be a certain security, but an absolute need to eternal reactions of globes, or other organical bodies into life. And on that root, it is clear, the living arithmetic in the body must be retained. So its breath is proved by "weight to measure." Sin against natural law unto certain death, by false pleasure to pain.

Let us view this, in which appear the figures of the square changed in place.

324000″ : 3142857⅛ :: 81000,00000″ : 78571428125,0000000.

This is death. For that is attributable, when there is no fraction left to carry on the force of nature's sympathies, magnetical, by this fraction of one eighth. If we had not used the abstract divisor of 22½° in seconds, for magnetical sympathies, to make organical solids by, but the 84420″ of the earth, the boil comes in for ever, on fractions developing. But 81000 is divisible by every other integer, without leaving fractions. For, by 7ths, it will never run out without leaving a life carrier for the coming light to work on for life-eternal under seconds. We might go on for ever with these beautiful examples. But we will now inquire of the moon, and we shall see how she rotates on the horizontal circle.

Table 21.

22½°.		Moon's times obtained.		7°.		For ever by 0.
81000″	:	2354219½″	::	25200·0	:	7324236, 36000.
162000″	:	„	::	„	:	3662119, 36000.
324000″	:	„	::	25200·00	:	18310596, 36000.

This fraction ever runs current by either of these divisors, native to law, by the normal root for the horizontal circle at decimals of continuance.

We will next test the point in respect to the standard times in Divine purpose declared by Moses, for all use to see the pure and good by—

Table 22.

Radius 90°		A day.				
324000″	:	86164″	::	25200,00	:	670164,144000 for ever.
81000″	:	„	::	„	:	2680657,63000 for ever.

To radius final over her decimal time, she gets on the full bowel solvents of the true square, between heat to cold, by magnetical actions to gravitational reaction, the royal number of the double, 12 × 12 − 144 in thousands,—that important number of the Book of Revelation by the redemption of the lost, natural, by the heavenly spiritual in Jesus Christ.

But we can obtain a valuable fact for other lessons in law from the earth's period.

Table 23.

90° = 32400	:	31472014½″	: :	25200·0″	:	24478235·0 death.
360°	:	31472014″	: :	„	:	22030409800·0 death.
„	:	31472014½″	: :	„	:	22030410150·0000 death.
„	:	$31472014\frac{3}{7}''$	: :	„	:	22030410100·0000 death.
90°	:	„	: :	„	:	88121640400·0000 death.
360° = 21600′	:	31472014½″	: :	25200·000	:	367173497241·00000 death.
„ = „	:	$31472014\frac{3}{7}''$	: :	25200·000	:	3671735016,14400 life for ever.
324000″	:	„	: :	„	:	244782334,14400 life for ever.
81000″	:	„	: :	„	:	979129337,630000 life for ever.

The idea we get here is, that until the degrees are dissolved by light into fractions by sixties, or the lower radius to the arcs of the circle, death only remains. So, the force of light new for ever is again enforced to do it and keep life up,—whether to keep gravitation from rest at work, or set it going from inertia entire,—a most important point. Also death by the ½, and life $\frac{3}{7}$ fraction of time.

By the moon, again we have

Table 24.

324000″	:	2354219½″	: :	25200·00″	:	18810596,36000 for ever
81000″	:	„	: :	„	:	73242384,36000 „
324000″	:	$2354219\frac{3}{7}''$	: :	„	:	18310595,1800 „
81000″	:	„	: :	„	:	73242382,1800 „

The following contrasts are interesting.

Table 25.

Moon's Times, 2354219½″ × 25200″ = 59326331400 1.
59326331400 ÷ 6315″ (Moon's Angle) = 9394510 2.
„ ÷ 84420″ (Earth's Angle) = 7027529 3.
÷ 26492″ (Sun's Angle) = 22394050 4.
987654321 × 25200″ = 24888888889200 5.
24888888889200 ÷ 6315″ = 394123392 6.
„ ÷ 84420″ = 294940647 7.
„ ÷ 26492″ = 939486973 8.

The second value shows a reaction in 9, the chief figure logarithmic. The third, the earth's landing on the Sabbatic figure to lead. The fourth is not far from the sun's own and the moon's times of rotation ÷ 10 as to the current by integers, especially the sun's. The fifth throws eight cubic integer-holders into the belly, but starting on the figures of the earth's and sun's circumference. The sixth is a current returned from the last, by the moon toward the earth's and sun's periods; while the earth's axis, by the seventh quotient, reacts toward the lunar and sun's times of rotation; and the last starts where No. 2 began, in 9394 again of the logarithmic association.

Table 26.

84220″ : 26492″ : : 2272616″ (Sun's rotation) : 713173″
„ : „ : : 2354219½ (Moon's „) : 738783″

Their liberty to work by concessions is the difference. Designed arrangement on decimal fittings for factors of close reactions by matter over matter is here plain enough. But our figure properties have only latent conditions for action at our use. So nature to the Spirit of Jehovah.

Table 27.

Earth's orbit, 546992347 miles ÷ 1497554·00 = 3·097726147
Sun's „ 54443024227 ÷ 14975540000 = 3·09516404227

Also, by their rotations in time with decimals to match.

Earth's, 86164″·00 ÷ 2354219 (Moon's) = 3·1553743
„ ÷ 2272616 (Sun's) = 3·1798552

The next is a very crucial test.

Earth's Ecliptic. 7° A Day.
84420″ : 25200″ : : 86164″ : 25609″
Radius, 90°. Square of Circle. Sun's Axial Angle.
324000″ : 3·142857⅐ : : 26492″ : 256977″
Earth's Period.
„ : 31472014½″ : : „ : 2573323″

Men are condemned who live without giving the due worship of the heart to the living and true God, and would rob him of the union in the 1st of Genesis for the testimony of his word and works there, also referred to as One, Almighty, and Alone, of whom there is no other; yet declared in the Word and works to be Triune, as Three in One, Father, Son, and Holy Ghost, the Designer, the Maker, and the Witness, in facts seen and felt. Another beautiful case for the test by reaction is to be seen thus.

Table 28.

Earth's diameter, 7912 ÷ 2156 (Moon's) = 3·1444
Sun's „ 787494 ÷ „ = 3·140694
Earth's „ 3·144400 : 3·142857⅐ :: 0·0168 : 167·1975200
Sun's „ 3·140694 : „ :: „ : 168·0363500

This, under the second lot of equations by the square of the circle, to earth's decimal eccentricity in proportion, by the orbit, gives us under the sun, the closer return showing his rule for it in gravitation to heat by automatical numbers, and what remains for the moon to affect is but a close decimal difference to her days, 365 *en courant.* Nothing shows out the determined design to make the earth standard more than the following.

Table 29.

Square of circle, $3{\cdot}142857\frac{1}{7} \times 2 = 6{\cdot}285714\frac{2}{7}$
Earth's period, $31472014\frac{1}{2} \times 2 = 62944029$
Earth's velocity per hour standard, 62569 miles
Sun's „ „ 6271 „

We will now enter on the evidence to prove that spherical trigonometry, and hence all globes between light, "the power," and ether the power's proportioner, operates to decimal decisions by a unit, normal and immutable, for the globules of light; and dual for the ethereal "firmament." Other evidence also will appear in an especial paper in due time.

Table 30.

360° =	1296000″	:	81000″ (22½°)	: :	10000	:	625	and out
180° =	648000″	:	„	: :	1000	:	125	„
90° =	324000″	:	„	: :	100	:	25	„
45° =	162000″	:	„	: :	10	:	5	„

And, $1296000 \times 6 = 7776000$.

The decimal curve is on 5 as the centre between 1 to 0, by 0 to 1 again; and so, for all physics to act so, that we can enumerate the actions by the adumbrators. But this all starts on the difference between 1 and 2 first, to react for other higher integers at squares and cubes, by threes. But in all these cases, right on to the last, there is no evidence of a carrying remainder. Life at the abstract of law, *i.e.*, without design, cannot start or live. The last high value, however, lands on the significant roots of three Sabbatic numbers, with that of the six, — the radii for chords to arcs of the circle into decimals. We will, next to this, test our square of the circle by a similar rule.

Table 31.

1296000″	:	$3{\cdot}142857\frac{1}{7}$	: :	25200″	:	61111·144000
648000″	:	„	: :	„	:	122222·144000
324000″	:	„	: :	„	:	244444·144000
162000″	:	„	: :	„	:	48888·144000
81000″	:	„	: :	„	:	977777·63000
40500″	:	„	: :	„	:	1955555·22500

This table alone proves the square of the circle we have found, to be correct.

It is not until we get to a set value, by dividing the horizontal circle, even in seconds, by 2, down the first column; so that it finds a fraction in the degrees, as $45^\circ \div 2 = 22\frac{1}{2} = 81000''$, that we can secure any change in the fractions for light in new radiations from the bodies so working. In each earlier case, we only get the 12×12 of the royal number in waves, to rise and fall.

This proves that only on that value, as $22\frac{1}{2}^\circ$, could the Designer rest, to get the ever-varying values of beauty and refinement to glory that His grand designs by chemico-electrical forces in light were intended to get up, as the Northern Lights by the heavy land pressures over the solar streams receding southward, show us.

Alter the square of the circle the least fraction and we shall get the chaos of the ancient philosophers, on which they supposed nature started.

But it also proves that any organism not made in its chemical state —nucleus, or the full body at once—could not work to support any species for a serious time if not set on $22\frac{1}{2}^\circ$ for the chemical reactions to some degree of accuracy, and if set so in full might live for ever if the laws of nature to rule it were kept to.

The third quotient by radius runs on the hemispherical powers that give the earth's and sun's circumferences very closely. This being of hemisphere to hemisphere, by the whole boil, proves their standard plan to the system, let the angle of the chemical sympathies for it be what they are.

Table 32.

Again by $3{\cdot}142857\frac{1}{7} \times 25200''\ (7^\circ) = 79200000000$ and
$22 \times 60 \times 60 = 79200.$

$7920000000000 \div 21600'\ (360^\circ) = 366666666{\cdot}144000$
$10800' = 733333333{\cdot}3600$
$5400' = 1466666666{\cdot}3600$
$2700' = 2933333333{\cdot}9000$
$1350' = 5866666666{\cdot}9000$
$675' = 11733333333{\cdot}225$

Our first sum being derived from the square of the circle again, this table proves it true.

Now, here the third current runs on sixes for ever by radius $90^\circ = 5400'$ after the two first figures, just as

$$222 : 333 :: 111111 : 1666666{\cdot}111$$

does after the first, which last ever gives out the globule of light to burst, by the heat received in the bowels, over its normal right (equal to its tenacity of cuticle in glues of life), under the old pressures of ether on it to show its silver lining as light to sight.

The fractions to their successions, also, show points of interest in law.

Whence do all organisms get their rights to a name especial, except it be by the different variations of the chemical changes to develop their forms by the axis of first rotations in the bloods?

So the earth had hers as "The Earth" at once, by the chemico-electrical setting on the unformed nucleus. The best science and only true is Biblical.

Here also the half of 22½° in 11¼° gives us the fraction 225, as in Table 31 it did by 22500, showing the harmony of the two tables' systems.

Table 33.

792000000 ÷ 360° = 2200000 ruled by
180° = 4400000 2 ethereal
90° = 8800000 over one
45° = 17600000 arc for any
22½° = 35200000 reactions.

Thus seven proves itself the safe carrier of life and health over the decimal system for measure to measure, as Moses taught, and our first quotient gives us 22 for its rule over all circles to get the value in × $3\frac{1}{7}$ as of the start for times.

Also, all the evidence is in favour of twelve hours to the day, and twelve for the night, as the Lord Jesus also so significantly gave it, "Are there not twelve hours in the day?" For the division between light and darkness marks the mean value of the two forces in epochs. A dead mass blocking the light and life; its turn to receive it the ratio for blessing and beauty. Yet by sleep in rest, hemispherically, a need for all under the mass-rotator decimal 7. The new fashionable system for time is a mistake, a sheer humbug of the would-be-wise of our day.

SECOND SET OF ADDITIONAL EVIDENCE ON ROOTS.

FURTHER, evidence that the eclipse orbs are entitled, ***sui generis*** from all others, to their Biblically declared titles.

1st Table.

7 : 22 :: 987654321 : 3104056437, 3. 1st.
22 : 7 :: „ : 314253647, 13. 2nd.
7 : 22 :: 123456789 : 388007051, 1. 3rd.
22 : 7 :: „ : 39281705, 13. 4th.

This table is initiatory to what follows. In neither case have we entered the decimal cypher in the third term, or subject. All the quotients run alike in the first figures, and by the second, or leading power major of the integers, we get three first figures of the square of the circle, and the earth's period alike. But if this forms the line for the laying of the nucleus of the earth, as standard, so radiation must reverse it; and the fourth quotient, with 22 for the representative of the ethereal heaven as divisor, at the certain action of the square of the circle, gives us but eight figures, as the earth's time has. Thus the "make" of the earth was to her setting over the sun for gaseous supply in support as close as possible to a mean of these quotients, to allow of concession off it, standard, to her associated, other two.

Now, natural selection, by an ethereal heaven, must fail to set exactly such a variation in the nucleus, however little changed, as, here, we have heat to cold represented, under its direct value to matter merely accumulating and fermenting at the tabled returns, only possible, even if matter could work itself, by the ideal innate forces, latent, of heat and attraction to meet. We do not set the cypher, for certainly no man could hold that what it represents to start as,—that is as less than a normal unit, or nothing,—could belong to any nucleus. But it may come as its fraction. But the earth's period is within the compass of this to set a fit nucleus. The sun's eleven figures of his period is above for a start in time. Hence he would have to await growth to the system by the minor before he could come in as Moses teaches; and, then,—if not made in full for the attachment at once with the moon,—must by any gestative for it in the upper ether, destroy the earth's fitness for rotation by his immense mass to absorb her. For attraction always works where a mass is. Allow design to come in for the earth's nucleus, and the sun's exact make, immaculate at once to fit her, and all is possible and true to experimental science.

Let us take the difference of each set.

Table 2.

3104056437 – 314253647 = 2789802790
388007051 – 39281705·0 = 248725346
3104056437 – 388007051 = 2716049386
314253647 – 39281705·0 = 274971942

In each case we have to equalise the length of the quotients first found, because they are the true actions of life forward to grow, and reactions to cool, to keep the body intact, unlike the cramped tabled system. Thus proving the necessity of the grand old covenant on Jehovah's shoulders for ever, "Let light be." Each of our last quotients, as remainders, carries a similitude to the moon's and sun's times of rotation. The moon's revolution being alike to the other, showing design for a settlement at the lowest possible standard, from the solar highest the decimal order was equal to.

What a vast period must it have taken to reach it, from the lowest possible nucleus to start with to show skill and purpose. Well might the Saviour say, "It is not for you to know the times and seasons which the Father has kept in his own power." None so suited this character as those before man could meddle with its order. The disciples asked of one; He spoke of all such periods of especiality.

Table 3.

1.	7 : 22 ::	1,000000	: $3142857\frac{1}{7}$, the square for ever.	
2.	22 : 7 ::	„	: $318181\frac{18}{22}$, its reactor for ever.	
3.	7 : 22 ::	1,0000000	: $31428571\frac{3}{7}$	Tabled for earth.
4.	22 : 7 ::	„	: $3181818\frac{4}{22}$	
5.	7 : 22 ::	1,0000000000	: 31428571428,4	Do. for the sun.
6.	22 : 7 ::	„	: 3181818181,18	
7.	7 : 22 ::	9876543	: $31040563\frac{5}{7}$	By real matter.
8.	22 : 7 ::	„	: 3142536,9	
9	7 22 ::	9876543210	: 31040564374,2	Do. for the sun.
10.	22 : 7 ::	„	: 3142536475,20	
11.	7 : 22 ::	$31472014\frac{1}{2}$″	: 98912045	By earth's period.
12.	22 : 7 ::	„	: 10013822	
13.	7 : 22 ::	31251170688″	: 98217965019,3	By sun's do.
14.	22 : 7 ::	„	: 9943554309,18	
15.	7 : 22 ::	86164″ (a day)	: 270801,1	
16.	22 : 7 ::	„	: 27415,18	
17.	7 : 22 ::	2272616″ (sun's rota.)	: 7142507,3	
18.	22 7 ::	„	: 723105,2	
19.	7 : 22 ::	$2354219\frac{1}{2}$″ (mn's. do.)	: 7398975,4	
20.	22 : 7 ::	„	: 749069,19.	

The reader will observe this significant fact first of all, that number 7 quotient leaves a fraction in 5, as by what we claim for the earth's nucleus value,—the 2 belonging to the ethereal medium, to start with, and the unit for the stream of light to come in. But number 8 on the same in reaction by ether, finds it to proceed on in life with 9. The one of half 10, the other the terminal.

The sun's period to nine integers will not appear at all; we must get to the cypher for the start. Also for real facts by real integers of automatical matter, the reactions of time could only start with. So, the tabled system could only be of the abstract rule on a mental ruling spirit's realisations, to get the chronometrical design we see in the heavens at work by. And the sun's and earth's periods show how closely they return the logarithmic tables' extremes by Nos. 11, 12, 13, and 14.

The earth's day turns by Nos. 15 and 16 toward the integral current of the sun's and moon's rotations. And by these 17, 18, 19, 20, return to act and react on the circle-squaring figure 7 for the lead.

The mean of Nos. 9 and 10 for the sun by actual mass ratios of integers is 31232964562″, by 31251170688″ only 18206126″, to leave him room to be fitted to work with two others, or but about 211 days on his vast period of 993 years.

Also, the mean of 100138220 and 98902044 is = 99525132, which is very close to the last logarithm of the tables, to allow of any concessions to others for three to present it, and 100000000 − 99525132 = 474868. The moon's diameter of orbit being 476494 miles, as the minor for the concessions to meet on.

The sun, like a true male, is cooler toward the surface expressions, yet hotter by his mass in the centre, and more thirsty of light by the same cause.

Also, the cooling value for the earth by integers, No. 8, is the earth's actual period given in Table 4 :—

$$31472014'' - 31425360'' = 46654,\ \text{diff.} \div 60 = 777''{\cdot}14$$

Also, 318181 − 310405 = 7776; and
The square, $3142857\frac{1}{7}$ − 3142536 = 321.

The first three integers in their master line, as the last difference was of three Sabbatic numbers, and the ruler of arcs by chords of a circle. Now—

$$22\tfrac{1}{2}^\circ = 81000'' - 84420''\ \text{(earth's ecliptic)} = 3420''$$
$$7^\circ = 25200'' - 26492''\ \text{(sun's angle)} = 1292''$$

Radius over the moon in finality by ether, ***sui generis***, by 90° = 324000″ has $6314\frac{28910637}{31472014}''$ for the axes.

Now, all the globes of heaven must submit for their factoral forms, relations to others, and times to the ethereal firmament working on radius by their bowels, but to subdue them by its own intent to the right angle of light by heat to ethereal pressures polar, to that equatorial. Hence we can test these roots of law on the working facts presented by the adumbrator arithmetical.

Table 5.

From Table 3, *Nos.* 5, 6.

$31428571428 + 31818181818 \div 2 = 31623376623$

Radius, $324000'' : 31623376623 :: 1292'' : 1260722298$
Earth's ecl., $84420'' : 31623376623 :: 3420'' : 12811057573$
$324000'' : 31623376623 :: 6314\frac{28910637}{31472014\frac{1}{2}} : 616077295$

$616077295 \times 2 = 1232154590.$

The current for the moon thus developed, runs closely to that of the integers at their minor setting, as the others so start; and the dual globule we account for those of ether, the final ruler over the moon's condensed forces, to reduce her for the standard direct wanted.

On this question, of the multiple by 2 for the value by the ethereal heaven, we have these facts. Earth's diameter $7912^3 = 495289174528$ by $\times\ 2 = 990578349056$; and the earth's period $31472014\frac{1}{2}^2 = 990487696688210$,—the latter being close to a multiple of the former by 1000. Then $7912^3 : 2156^3$ (m's. dia.) $:: 31472014\frac{1}{2}^2 : 4476812^2$ This return by $2156^3 = 10021842416$, a close multiple by 1000, to the square, nearest, it is derived from $\div\ 2$, which is $20041845683354 \div 2 = 10020922841627$. Thus, returning back to the current for the moon's mass again; and $4476812 \div 2 = 2238406''$; which, as seconds of time, is returning toward the sun's and moon's times of rotation, and the moon's revolution. Thus, the earth weighs her servant in the scales to prove the principle she is reduced to act by, although free in ether, as a globe for the cubic ratio to show it; and, in fact, is, as Sir Isaac Newton worked, a standard for all.

That the moon's mass in $2156^3 = 10021842416$ square miles $\times\ 3\frac{1}{7} = 31497124736$, which is of the same number of figures, the sun's period is found, and the two first figures of it with three of the earth's clearly proves her body to be set at a gravitational mile to a second ratio for the bowel working between these two globes, she acts in the eclipses with, proportionately.

By 7 : 22 we have 3188758496. Equalise the lines with a cypher, and the mean is 31692354848.

Table 6.

90° Moon's Axial Angle.

324000″ : 31692354848″ : $6314\frac{28910637}{314720141}$″ : 617699471″

× 2 = 1235398945.

This proves how certainly she is condensed to be the final reactor from what we claim as the earth's nucleus at the beginning in—that is, she is to sum by 123456789 to the earth in power, or 987654321 when light is set over both. So, again, a concurrent result, thus—

324000″ : 31472014, a year : 6315″ : 1226824

The lunar balance may again be seen, thus—

Her times 2354219½″ log. 6·3718267 × 2 = 12·7436534. By 7 : 22 and its reverse, we had 7398975 and 749069.

Also take the first five figures of the earth's and sun's periods.

Table 7.

Earth 31472 log. 4·97243 × 2 = 9958486
Sun 31251 log. 4·948500 " = 9897000

And we had already,

22 : 7 : : 31251170688″ (Sun's period) : 9943554309
7 : 22 : : " : 98217965019

The earth's period in 31472014½″ must give a similar evidence to these two voices being set to tabulate in life and fire, their co-incidences for a standard by three in one set for compensative proportions by ellipsis.

We need, also, to bring the moon up to 12 of the index number by × 2, showing her reduced fate as before. Again, as to the potency of 7 at its square, we have—

Earth's mass, 495289174528 ÷ 49 = 1017942673
Now moon's mass, 2156^3 = 10021812416

Thus, by the sun's overplus we have given him from 7° = 25200″ for his axial angle in 26492″ = 1292″ diff.

Table 8.

Radius 90°

324000″ : 1292″ : : 31251170688″ (Sun's period) : 12461886″

Then by the moon's mass × $3\frac{1}{7}$ found just now—

324000″ : 1292″ : : 31497124736″ : 125630537″*
84420″ : 3420″ : : " : 1276002909″
" : " : : 31251170688″ (Sun's period) : 1266038850″
" : " : : 31472014″ (Earth's period) : 1274985″

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* If we used 1200″, which is the difference by the astronomer's solar angle, 7° 20′ = 26400″, it will not reach the decimal integer by either power above. Hence we judge our own correct.

The 3420″ is the overplus in the earth's ecliptic to $27\frac{1}{2}° = 81000″$ standard to magnetical sympathies to hand for a factoral setting against gravitation to carry the cross circle of heat.

Sun's Period.

Now 324000″ : 3420″ : : 31251170688″ : 329873468″

The earth, by radius, on her own concession of the ecliptic axis, running back over the sun's period to a mean value, closely, between the current integers of her own and the sun's period.

Table 9.

26492″ : 84420″ : : 2272616″ (Sun's rotan.) : 7241965″
84420″ : " : : " : 713144″

By the square of the circle we have 723327″ and 7144707″, so closely do these match.

The same may be found over the earth's or other mass by these axial angles.

Table 10.

Earth's Mass.

Sun's, 26492″ : 84420″ : : 495289174528 : 1578299177625
Earth's, 84420″ : 26492″ : : „ : 156032940197,0
7 : 22 : : „ : 1556623119945,1
22 : 7 : : „ : 1575920100775

But, also, if we equalise the length of these quotients from the earth's mass, by a cypher, to tabulate them, the two first give us a difference in 3042678440. This, in ten figures, giving a course to start near the integers of the two periods, the sun's and earth's. Now, if figures must be had to do our sums, or empty spaces between only, what is the difference by practice? So, if the globe's real matter must communicate by touch in attraction to give respondents, well. Not by space only. So by circumferences.

Earth's.

1566271610357 ÷ 24866 = 62988483
„ ÷ 2474981 (Sun's) = 632901

Earth's hourly velocity, 62569 miles; sun's, 6271. In both cases, 1000 has to reduce the quotients for the contractive value on velocity, by confined heats; and the difference is but small to allow for the moon to speak of her importance, $1000 = 10^3$ standard to law.

Also, the added values of two of the quotients of Table 10 are 3138628579595 and 3132543220715; equalise the lengths of the earth's and sun's period; then 31472014000 + 31251170688 ÷ 2 = 31361592349. The mean of all four × 2 = 313558590014 when lengths are adjusted equally by 0.

So well balanced are these globes on their masses by 7912^3 and 787494^3. For $787494^3 \times 3\frac{1}{7} = 1534751635892299321 \div 2474981$, his circumference, gives us 6281 for the first four, to 6271, his velocity in miles per hour found.

Also, $62988483 \div 2 = 31494241\frac{1}{2}''$, or but 6 hours 16′ 37″ difference from the earth's true period.

Again, as to her servant the moon, $2156^3 \times 3\frac{1}{7} = 31497124736 \div 6776$, her own circumference, $= 4648336 \div 2 = 2324148$.

Not only do the first figures of the earth's and sun's period appear in the first quotient, but on the second a very close value to her own diameter of orbit, 476494 miles × 10, and in the last we are close to her times, $2354219\frac{1}{2}''$, and her distance from us, 238247 miles × 10, also. And for all this we have been right through her bowels.

Table 11.

This is to be by orbits under circumferences.

Sun's, 5444304525 miles $\div$ 2474981 sun's cir. $= 2199$ only
Earth's, 546992367 $\div 24866\frac{2}{7}$ earth's do. $= 21996$
Moon's, 1497554 $\div 6776$ $= 221$

We have already presented the idea, that the earth's nucleus, or any other at the beginning of creation, must be "unformed," as well as "void" or powerless to act alone, even by a heaven over her, to keep a settled balance of gravity; the globules 2 and 1 belonging to the required proportioning heaven, and light the power new in streams for ever. Let us parallel this.

Table 12.

22 : 7 : : 9876543 : 3142536,9
7 : 22 : : ,, : 31040563
7 : 22 : : 98765432 : 310405643,3
22 : 7 : : ,, : 31425365

Now, the ethereal heaven existed at once, Moses says; as A must be set before B, for proportion before the active multiplier can set both at work out of impotence.

So here we get eight figures for the earth's operations at the succession to 3 only. But not in the cooled order, by 22 the divisor. Yet if light be constantly coming they exist for ever. Now, at the induction of the ethereal heaven, we get the 31425365″ instead of $31472014\frac{1}{2}$ of her period, which, as a period, is of a greater value still, by its greater force in time. So she had to grow to it, and geology says has done so. So Moses also taught. The solar metallic gases also aid this gain of power.

We had a respondent just now to the moon's circumference of diameter; we can get another on radical roots.

22 : 7 : : 987654321 : 314253647,13
Earth's period, 31472014,0 − 314253647 = 466493 for miles.
Then lunar circumference of orbit, 476494 − 466493 = 10001.

But the fraction of a ½ second more for the earth's times, and the $\frac{1}{2}\frac{3}{2}$ will reduce the unit into a fraction. So wonderfully do these reactionary respondents shew their decimal setting for standards.

For the female higher boil of her heats and waters to the sun's, by the period to the ruling number, we have—

Earth's period, 31472014½ × 7 = 220304101½
Sun's period, 31251170688 × 7 = 217858194816

Both start on near 22 of the square's other number, but the earth is only up to it for this.

Higher, royal, self-command is here, typically represented, as of the male by the sun, and in humility to an end ordained.

To show how nicely balanced the earth's rotation is set to work, we give a table by 7 : 22 and 22 : 7.

Table 13.

Time,	86164″	gives	27415·0	by	270801;	difference,	3349
	86163″	„	27416·0	„	270791;	„	3352
	86165″	„	27416·0	„	270804;	„	3356
	86166″	„	27416·0	„	270807;	„	3353
	86162″	„	27415·0	„	270794;	„	3356
	86161″	„	27415·0	„	270791;	„	3359
	861641″	„	274158·0	„	2708014;	„	33566

The leading figure of her period always appears; and the balance to a table report is very nice. The cypher to keep it is put in as by light to quicken by enlargements thereby, as real matter, to radiation in loss, again. So demanding its constancy, new.

Table 14.

Moon's Times give by						
2354219″	to us	749069·0	−	7398974;	difference,	91716
2354220″	„	749070·0	−	7398777;	„	91723
2354218″	„	749069·0	−	7398971;	„	91719
Sun's Rotation gives by						
2272616″	„	72304·0	−	7142504;	„	881543
2272615″	„	723105·0	−	7142507;	„	88543
2272617″	„	723105·0	−	7142510;	„	88540

The moon's differences run on 9, the logarithmic figure of finality; the sun's on 88, or a double cubic 2^3 leader integral; most royal, and of "that double" so much alluded to in Scripture, of the need by a Redeemer, for the restitution of the Edenic acmé in all things millennial, —body as well as spirit pure. By the earth's period we have—

Table 15.

22 : 7 : : 31472014 : 100138202
7 : 22 : : 31472014 : 98912045

Her currents run over the decimal order for logarithmic reactions, then under. Showing the actual need of her standard position being sustained by a real multiplier of mass to mass, as a progressor.

But the sun's period is more to order in due meekness of its spirit. A true type.

Table 16.

22 : 7 : : 31251170688 : 9943554309$\frac{4}{7}$
7 : 22 : : 31251170688 : 98217965019

Neither reach the 100 and its successions.

Our final effort in this paper will be to test the result by the earth's ecliptic angle to the sun's, under radius, and then the moon's the same.

Table 17.

Earth's—84420″ : 26492″ : : 100000000 : 31381189″
" : 6314″$\frac{28910687}{31422014}$ " : 2347425″
Mn's. Ts.—2354219$\frac{1}{2}$″ − 2347425″ = 6794$\frac{1}{2}$″ less to the balance.

Hence, she needs a little help from the sun,—her master,—and so to keep her place, rocks on her own centre, while pushed round by the threads of life-heat within her, to her own libration, by the revolution.

This accounts, also, for her great eccentricity of orbit, so that she may sink nearer her fount of supply, for her breath gases to keep up her distance and motion.

THE THIRD SET OF ADDITIONAL EVIDENCES.

To make this complete, we have to link in some of the points gone before.

Table 1.

Earth's diameter, 7912^2 = 62599744
Her hourly velocity, = 62569 miles.
Sun's diam., $787494\frac{30246}{86164}^2$, = 620146800036
His hourly velocity, = 6271 miles.
Last log. of numbers 9·99957 × 62569 = 62567309533
Do. do., × 6271 = 6270740246
62569 log., = 7963592
6271 log., = 7973368
Sun's diameter, ... 787494
Earth's diameter, ... 7912

These are wonderful correspondences, if they be to be dealt with as mere chance, and not of divine wisdom in design. But, now, beautiful by it. In fact sublime!

Table 2.

From previous table E., 62599744 ÷ 2 = 31299872
„ „ S., 60146800036 ÷ 2 = 310073400018
By last log., 62567309533 ÷ 2 = 31283654766,1
„ 6270740246 ÷ 2 = 3135370123,1
Earth's period by observation, . . = 31472014½″
Sun's period, found by Kepler's third law at its root of mass to mass, . . . 31251170688″
The cubes of the two diameters, divided by $2^3 = 8$, and for ether's work in gravity, and again by 2, direct in chemistry, } Earth's, 30955570408
Sun's, 30522657999920674

This finds the last correspondences by both the weight of ether as of simply a cold sinking mass to give the impulse through the bodies of the two globes to raise them, as well as rotate them, by the bowels, and to rule the periods by its chemical right as a living globule.

For in all cases, if we admit an ethereal medium at work at all, as men of science since the last Exeter meeting of the British Association had at least professed to have demonstrated,* we must allow that while over all the universe, by the sun's bowels as the centre of all for its columns cold and hot to work on, and in and through to be consistent to experimental volcanic result, so the final touch coldest must be at a chemical value as well as a weight value on change column to column, and the last falling cold globule to its change for greatest heat for a rise, and this must be the same in every globe and every organical body whatever.

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* Before that meeting my last work, "How Globes are Raised and Moved," with its proofs of the necessity for an upper ruling firmament, was printed, and, by means of a mutual acquaintance, in the hands of the president some time before that meeting.

Hence our use of it as of a double division, which is the case by the mass power and the single integers' value at the first touch of the parts of a sum for proportions by arithmetic.

No law can exist at all for decimal order without it. Air plunges into the ocean vortex with it.

The two cubes of diameters are—

E. $7912^3 = 495289174528$ square miles.
S. $787494\frac{30246}{86164}^3 = 488362527998730797$ square miles.

The earth's mass by the cold division at mere pressure, or by 8, equals 61911146816, and the sun's 61045315999841349.

Now this cold pressure must be of impact by the mass of the ether each has to go through for its reduction into velocities; and the earth's is 62569 miles, the sun's 6271 miles as before found at law herein.

Now the compression ratio of the sun's mass is admitted to be not equal to the earth's, she being most solid.

Table 3.

Also $61911146816 = 248819^2$
$61045315999841349 = 247073509^2$
Sun's circumference, . 2474981 miles.
Earth's " . 24866 miles.

In which we get the compression degree all round each globe as only relieved of light, the worker itself to give the diameters to attraction on the centre, under cooling ether, condensing.

The following remarkable table of facts may now be presented the reader:—

Table 4.

1. Earth's diameter, 7912m. × 2^3 $= 63296$
2. Sun's " 787494 " $= 6299952$
3. Earth's " 7912^2 $= 62599744$
4. Sun's " 787494^2 $= 620146800036$
5. Earth's velocity per hour standard time, $= 62569$ miles.
6. Sun's " $= 6271$ miles.

7. 360°=1296000″ : 25200·0 (7°) :: 3·142857¼ : 61111·144000 for ever.
8. 1296000″ : 26494″ (Sn.'s ang.) :: 31472014½″ : 643330 by a year.
9. " " :: 3·142857¼ : 64244 by cir. square.
10. " " : 31251170688″ : 631100311 by sun's pd.
11. 1566271610357 ÷ 24866 (Earth's cir.) =62988483 } From Table 10 by a mean
12. " ÷ 2474981 (Sun's cir.) =632842 } of two by last paper.
13. Final secant 10·150515 × 6271 (Sun's vy.) =63653·879725
14. " × 62569 (Earth's vy.) =63107·573035
15. Final sine 9·849485 " =617272·426965
16. " × 6271 =61766·120435
17. Mean quotient of Nos. 13 and 16 =62719·995880
18. " " 14 and 15 =626189·7786571
19. Sun's period 31251170688″ × 2 =62502341376
20. Earth's period 31472014½″ " =62944029
21. Last log. of numbers 9·999957 × 62569 =625887·309493
22. " × 6271 =62709·730347

All these correspondences astronomical turn on the axis of 6, as of chords to arcs, for their first integer.

This is a little past any man's powers of fudge or cooking the ledger.

Every one of these quotients, at division by 2, or an ethereal globule at its transmutative force, chemically, finds 3 for the first figure, or that of the index number of the square of the circle, at any estimate, and the first running figure of the earth's and sun's periods.

Also, in using 1296000″, we are using that of the whole pressure-power of any encircling fluid, as it is that of the full horizon over the axis of revolution, either of ether by the square of the circle, or of any factoral correspondent, organical, at its axis of rotation and revolution. See Nos. 7, 8, 9, and 10. Thus, we have experimental proof from the heavenly bodies that ether enters the bowels of all organical bodies at the vertical vortex light provides, and squares the times by impact. See from 1 to 6 Nos.

Now 1296000″ : 84420″ (earth's ecpt.) :: 3,142857¼ :: 204732·288000 for ever.

Our globe, by her axial angle at its remission to radiation, by the pressure horizontal of all the heavens, gives off the dual globule due to the ethereal firmament itself in a steady stream for ever. Only let the Edenic state be constant and uninjured. A great proof to the means for longevity, eternal, before sin came in; and its graduated loss into death, from long to short lives afterward.* It, also, proves her fitted to be the first globe ever made, for a standard in all, at her rotations of day and night, before the air was tainted by human deaths.

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* See Genesis xi. 10-26.

If we place the whole hemispherical horizon over its half to the square of the circle, we get one important type of a Biblical point of import in Leviticus.

$1296000'' \; : \; 648000'' \; : \; 3{\cdot}142857\tfrac{1}{7} \; : \; 15{\cdot}714281{\cdot}812571\tfrac{3}{7}$

This gives us that index of perfection in a running life ratio of 15ths, that day of rest signified in Leviticus as the day for the Feast of Tabernacles, called the great day of the feast (chap. xxiii. 33, 34-39),—indicating the pure fruits of God's truth in the "good" entire by the coming Lord Jesus. The quotient, then, runs by the bubbles, ever rising by light from God for ever, as into the square of the circle eternally between the working hemispheres.

Also, by a day and the earth's ecliptic angle at competitive evidence.

Table 5.

$1296000'' \; : \; 86164'' \; : \; 25200{\cdot}000000 \; : \; 1606{\cdot}754805{\cdot}72000$ for ever.
$1296000'' \; : \; 84420'' \; : \; {\cdot}142857\tfrac{1}{7} \; : \; 9305{\cdot}72000$ for ever.

We will now introduce the earth's diameter by the moon's, under the integers for the multiplier.

Table 6.

Moon's, $2156 : 7912$ (Earth's) $:: 987654321 : 3624453148{\cdot}664$
Circum., $6776 : 24866\tfrac{2}{7} :: 987654321 : 3624453148{\cdot}2086\tfrac{6}{7}$
$2156 : 7912 :: 123456789 : 453056639{\cdot}884$
$6776 : 24866\tfrac{2}{7} :: 123456789 : 453056639{\cdot}2778\tfrac{2}{7}$
$664 \times 3\tfrac{1}{7} = 2086\tfrac{2}{7}$, and $844 \times 3\tfrac{1}{7} = 2778\tfrac{2}{7}$
$453056639 \times 2^3\ (8) = 3624453112$

The last multiplier is that of a cube to another, so closely do these two globes correspond to a balance in gravitation for all their changes.

Also, by the fractions $2156 \; : \; 664 \; :: \; 8 \; : \; 2{\cdot}1000$
And $6776 \; : \; 24866\tfrac{2}{7} \; :: \; 8 \; : \; 29{\cdot}2416$

The first quotient gives us an ethereal index to a standard. The last almost exactly the moon's time from the sun to the sun again at our sight in days. The full results, however, will be perfect.

Table 7.

$2156 \times 3{\cdot}142857\tfrac{1}{7} = 6776{\cdot}000000$ and by
$7912 \times 3{\cdot}142857\tfrac{1}{7} = 24866{\cdot}285714\tfrac{2}{7}$
$6776000000 : 248662857144\tfrac{6}{7} :: 987654321 : 3624453148{,}2086857142\tfrac{6}{7}$
$6776000000 : 248662857144\tfrac{6}{7} :: 123456789 : 4530506639{,}2778285714\tfrac{2}{7}$
The square, $3{\cdot}142857\tfrac{1}{7} \times 884 = 2778{\cdot}285714\tfrac{2}{7}$ } The fractions are perfect by the
From Table 6, $\times 664 = 2086{\cdot}857142\tfrac{6}{7}$ } square of the circle.

But by leaving out the unit we get especial facts.

Table 8.

2156 : 7912 :: 98765432 : 362445314,1000
6776 : $24866\frac{2}{7}$ :: „ : $362445314,3142\frac{6}{7}$
$1000 \times 3\frac{1}{7} = 3142\frac{6}{7}$.

The first fraction starts on the table's standard; the next on that of the square of the circle, for ever. So perfect do they stand to action in either to prove their claims are *sui generis* together, by the sun and universal heaven all round him, for unity to the earth's day and night order primarily. But we cannot reverse this order for the integers, at a start in time, on any account. For,

Table 9.

2156 : 7912 :: 23456789 : 86680758·320
6776 : $24866\frac{2}{7}$ :: „ : $86680758,1005\frac{5}{7}$.

$320 \times 3\frac{1}{7} = 1005\frac{1}{7}$ all right; but $86080758 \times 8 = 688646064$. The balance by × 2^3 is lost to adjustment. The solar balance is running on.

252000″ : 26492″ :: 10000000000 : 105126·587301,14800.

Add continued decimals to this remainder, and we have 587301 at each six actions for ever. If we reduce the axial angle, or second term, but a second, we get 10512·301587·7600 for ever. We might add to these instances of either death or a life rotation gained for ever.

But on the importance of exactitude to a figure for any purpose, the following will be useful. The horizon in degrees at cyphers ever adding to remainders—

Table 10.

360° : 264920″ :: 10 : 7358·320 for ever.
„ : 264000″ :: „ : 733·120 for ever.
„ : 264100″ :: „ : 73363·320 for ever.
„ : 26420″ :: „ : 733·320 for ever.
„ : 264300″ :: „ : 73416·240 for ever.
$22\frac{1}{2}$° : 26491″ ::1000: 117733 for ever a three.

A beautiful and curious result follows by the moon's axial angle at 6315.″

Table 11.

90° = 324000 - 6315″ = 317685″
324000″ : 317685″ :: 10·000000 : 9·805092·192000
„ : 6315″ :: 10·000000000 : 19·490740·24000

At the obverse multiplier she gets back to 1, index from 9, or 9 + 10; thus carrying value decimal, between 1 and the last integer; a proof of her place in nature, of finality organical. By adding on cyphers, we shall see successions of 740 for ever in the last case. By the former, 592 successively.

Now $123456789 \times 6 = 740740734$ and
$987654321 \times 6 = 5925925926$

This is a curious and most important point, as to the lunar make by design in perfection. Although we find a fraction less than 6315″ for her axis, that only increases the need of great skill to balance it to others, and then to the moon if it exists by fractions to others. This shows the standard. We will next set a table to show the earth's axial perfections by her ecliptic.

Table 12.

360° : 84420″ :: 3·142857⅐ : 737·000000 death.
180° : „ :: „ : 1474·000000 collapse.
360° : „ :: „ : 33·500000 collapse ÷ 5
and, 180° : „ :: ·142857⅐ : 67,000000* collapse.

Now here, as before, we find that the degrees of the horizon, by the whole, or other values at half, until we get to a fraction by a divided unit in some way, either by 22½°, or otherwise, always end in collapse. This witnesses to a very important point the Scripture narrative makes a particular point in the first day of the Mosaic history.

Gravitation, in settlement over any body, must, by any floating medium of equalisation, in all properties of law, fall to equilibrium over any internal settlement of the gravitational centre of the subject, having to be itself moved only by that subject's interior state; that it may always act as a proportional of any power disturbing equilibrium. This alone is life throughout.

Also, for a nucleus, the least, to become during time so impregnated with the magnetical introduction by light, the power over all, so that the force of magnetical energy is in full climax Edenic, to secure constant action to reaction between it and natural gravity, by perfectly equalised times of rotation, it follows, that as the medium between both forces at work in it must be subject to add no superior magnetical action, decimal, one way, to that of the other,—as even a mechanical time-keeper between the force for true time and the dead-weight regulator requires, so,—when the Edenic era did arrive, so that the balance between light in force, and the upper ether, as a suction vortex entering the subject with it, could not any longer increase the velocity of that subject by the perfectly balanced polarisation of that power.—so, if such an era ever did arrive (and observation tells us it did, for it exists now), then, the born globe from gestation, which must, also, carry the root for it, before outer fed growth begins, so as to be liable to a balance between the two, must have had the hand of some one to break it, and give the first turn; or, God to divide between the "day and night." For all polarisations to a pure circle of power, although on an elliptical laying for the circle, when it was set at work, must divide the hemispherical forces into half; as the axis of a polar divisor does any circle. So equality is rest between two in self. Then, this sets the action between 0, 1, 2, by 3 for all the operations in space,—as nothing,—light in the unit normal,—and 2 the first fraction to a setting, fit to give it. Our earlier conclusions are proved on this point.

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* This table proves the square correct, by 7ths to 10ths, alone.

A new-born infant has had the need for the surgeon attendant to blow into its nostrils to give the inflation of a life-action; and, then, been all right, when nature has not inflated the lungs. Resuscitation from drowning is of the same feature. The chemical state for life exists, but at a balance of rest, at the hand of the "breaker," air being at hand to be breathed into it. Now,

Table 13.

22½° : 84420″ :: 3·142857⅐ : 1183·688888·20 for ever.
But 90° : 84420″ :: 3·142857⅐ : 2948·0 collapse.
90° : 84420″ :: ·142857⅐ : 134·0 collapse.

The value of the Sabbatic number is fully attested by any alteration of the ecliptic, which will divide by it without fractions. Thus,

Table 14.

90° : 84413 :: 3·142857⅐ : 2947·755555·50 for ever.
90° : 84413 :: ·142857⅐ : 133·988888·80 for ever.
But 81000″ : 84413 :: 844130000000000000 : 148876·54320987654320

Here, in the last equation, the belly succession runs eternally (to light for ever, making the new left-hand — bubbles or cyphers of matter), so that the succession runs in eternally from 9 to 20, leaving out the unit of light, as extinct, to the quotient, or burst, by the mass it acts on, into its fraction, as a crystal, when showing its silver lining as light to the human eye by its brilliant scintillations.

If we multiply the earth's ecliptic by 2 we get a Sabbatical current, or a unit one; by an index, or none.

Table 15.

81000″ : 168840″ : ·142857⅐ : ·297777·63000 for ever.
81000″ : 168840″ : 3·142857⅐ : 65·511111·900 for ever.

Let us add seven to this—

81000 : 168847·00000000 :: 142857$\frac{1}{7}$: 29779·012345679·100
81000 : 168847·00000000 :: 3·142857$\frac{1}{7}$: 6551·382716049·3100

In the first quotient, we get by the decimal successions for ever, the minor line of the integers, instead of, as in a former instance, the major; but here, the unit appears, and the 8 is left out. In the second quotient the rotation of the nine figures, also, goes on, after the index is found for all, and all are there except the 5.

We might tire the patience of Socrates, Newton, or Job in following out these beautiful evidences to the need for design to avoid death in the whole pot of the universe, or in any organism; or to set a species which should keep up only by breathing on degrees of life times to each parent. It is as fit for all globes as the proposed, for it, immortal arcs of the upper natural firmament; or, for man, as that person who was to hold the entire physical complement of universal physics, although only to keep it at a free-will law of action by perfection to a law-keeping providence in God's covenant made, as he must, then, be of God's image, or for the physical, with the pure mental and spiritual perfection of that true worshipper of His God, Jesus, the Word Incarnate.

But the first Adam had a refuge for ignorance and weakness at confession that the onus of keeping his own life was too great for him, by eating of that sacramental tree,—the tree of life, which in his pride of self-moral power he neglected until it was too late. Then, humbled at last to meekness on this, he was glad to find his refuge in another tree of life,—a promised and really perfect-in-spirit Redeemer, who had no such refuge as that Adam had lost, lest the latter ruin all by a claim to its covenant and perpetuate sin.

But, further, on our physics.

If 81000″ carries the highest reactions of magnetical forces, sympathetical and antipathetical,—on which the earth is set for her formal conception at 84420″, to work her to show the standard by two others, —then the sun having to take the tabled centre by spherics in 7° 21′ 32″, or 7° 20″ by the observers' account, so it is clear he has only a concession from 7° to hold the solar place of the tabled order by three in one, with 21′ 32″ for his concession to others in office. So we will test it over by his axis in seconds.

Table 16.

1. 25200″ : 26400·00 :: 0·142857$\frac{1}{7}$: 14·965956
2. 25200″ : 26400·00 :: 3·142857$\frac{1}{7}$: 339·251700
3. 81000″ : 26400·00 :: 3·142857$\frac{1}{7}$: 10·243386
4. 81000″ : 26400·00 :: 0·142857$\frac{1}{7}$: 46·560845
5. 81000″ : 25200·77 :: 3·142857$\frac{1}{7}$: ·377777 for ever.
6. 25200″ : 26492·00 :: 3·142857$\frac{1}{7}$: 33·039909
7. 25200″ : 26492·00 :: 0·142857$\frac{1}{7}$: 15·018136
8. 81000″ : 26492·00 :: 3·142857$\frac{1}{7}$: 10·279082

We have some very important points by these competitors.

By the astronomers' value for the solar axis, 26400″, we get only near to the highest Biblical value, 15, for the day of the feast of the high day, at the first equation.

This may be of no import to sceptics; but the sun is a type of the Great Finisher of tabernacling on the earth at law. For by 26492″ we get the 15, index number, at equation 7. Thus, we see the truth, so grand as to the creation purpose in its style, in the words of our adorable Lord, when using natural facts for His parables, that he was unveiling the use of things hid from the foundation of the world.

Now, ·142857$\frac{1}{7}$ × 25200″ (7°) = 36000·000000″ ÷ 81000″ (22½°) = 44444, 36000; thus returning by $2^2 = 4$ in succession for ever, the horizontal value at decimals for ever in the fractions, as the previous decimals of the square give the same claim by 7° in seconds, for a multiplier. We will now test the moon for her share by these points of Leviticus.

Table 16.

90° = 324000″ − 6315″ = 317685″.

This is tantamount to placing her axis at the free use of light to ether.

Radius 324000″ : 317685·″00 :: 3·142857$\frac{1}{7}$: 3·081600
" " : 317685·″00 :: ·142857$\frac{1}{7}$: 14·000726
" " : 6315·0000 :: ·142857$\frac{1}{7}$: 27·843915
" " : 6315·00 :: 3·142857$\frac{1}{7}$: 5·817018

By help from two and four globules from light, new, giving us first the 3 of the index number of the square and the first figure of the earth's and sun's periods. The next shows her bowel fractions current to the full value of our 14 generations, in response to what Scripture says of the pure. The third presents us with a close value of her own month to its days. The last shows us her slave's place to decimals as 10 ÷ 2 = 5, her reduction often found.

Now action always must by a hot multiplier generate one cypher bubble at the right hand, and reaction another; starting to keep up the radiated expiring ones on the left hand, bursting in ether to make light visible.

We will next test the earth's and sun's angles, by the reactionary values of the cold poles, as well as direct first, by radius or perpendicular pressure.

Table 17.

1. 324000″ : 26492″ :: 3·142857$\frac{1}{7}$: 260063″.
2. 324000″ : 84420″ :: 3·142857$\frac{1}{7}$: 818888·288000 for ever.
3. 84420″ : 26492″ :: 3·142857$\frac{1}{7}$: 986265.
4. 324000″ : 26492″ :: ·142857$\frac{1}{7}$: 11187.
5. 324000″ : 84420″ :: ·142857$\frac{1}{7}$: 37222·72000 for ever.

In No. 1, the sun nearly returns on his own decimal current of the axis, as the sole one of the heavens in royalty, to place and dignity to allow for others. The earth's axis gives us a standing current of bowel fractions for ever in Nos. 2 and 5, the first being of the lofty one of the integral cube. No. 3 shows us the sun to the earth's axis as divisor, giving a close current to the highest laying of the integers from 9 to 1. And in the next one so low, that the radiative fractions are three of pure light to lead. Now, as the sun has found for him the axial angle 26492, the earth's must be working under it in magnetical ratios, decimal. So—

Sun's Angle. Earth's Ecliptic.

26492″ : 84420″ :: 3·142857$\frac{1}{7}$: 10015099·18292.

This is as above the decimal current of 100 square or cubed of the Tables, very close for liberty, to the 1505150 of their expansive allowance in overflow. If we only used 26493″ it will not be so near.

We now deal with the opposite angle.

324000″ – 84420″ = 239580 and 324000″ – 26492 = 297508″

Table 18.

E. 324000″ : 239580·00 : ·142857$\frac{1}{7}$: 10·563494. 1.
S. 324000″ : 297508·00 : ·142857$\frac{1}{7}$: 13·117636. 2.
E. 324000″ : 239580·0 : 3·142857$\frac{1}{7}$: 23·239682. 3.
S. 324000″ : 297508·0 : 3·142857$\frac{1}{7}$: 28·858800. 4.

In the first, we again get the index ten at two cyphers added, and the thirteen months of the moon to the year in the next.

The third presents us with the hours of the day, closely, at one decimal added, or simple inflation to rotate by light; and in the last, the intermediate value between the synodical and tropical number of days to his months.

The fraction over 23 in No. 3 is as 239680 – 239580 by the power it is derived from to rule its flow.

And 239580″ : 239682″ :: 86164″ (a day) : 86200·163848″. 86200 – 86164 = 36, or of the royal valuers of the horizon, 12 × 3 = 36.

We will next use the magnetical angle standard, or 22½° = 81000″, which from radius gives 243000″.

Table 19.

90° = 324000″ : 243000·00 :: ·142857$\frac{1}{7}$: 10·714285

The difference by Table 18, from the earth's valuation, is on the current fractions of reaction, as

714285 – 563494 = 150791, which varies but little from the 150515 of the Tables.

Table 20.

The eccentricities also, corroborate our roots.

Earth's, 0·0168 : 0·0549 (moon's) :: 0·142857$\frac{1}{7}$: 466836 ÷ 2 = 233418
And 0·0168 : 0·0549 :: 3·142857$\frac{1}{7}$: 10·2704018

The first quotient is close to the diameter of her orbit, and its half to her distance, and near her times. The next carries the important index 10, as the sun and earth did before; thus showing her balance of weight to fall, and force of heat derived from them to rise again at its due value in full by her dead weight to her living breath.

This is proving the system of law we derive from the Bible by the experimental evidence to see it all "good." That is, by the astronomical facts themselves, the only true tests.

We can gain some important evidence from the moon to the sun on the rule that, as these globes are stated by Moses to be "made and set" to rule the earth's times and seasons, under the associated signs of the Zodiac, afterwards set in the final agencies, by stars,—and that each is a free globe to ether and light on such proportions as was required thereto, under heat to cold, by gaseous, fluid, or watery agencies,—so the sun being set to work the moon by Kepler's third law, or, the full free cubic ratio to its fellow, while the moon was reduced to the lower level, to act by the earth to give the standard by the eclipses,—it follows that the sun and moon to their mass proportions must also give a *rôle* which (on Kepler's third law), as final free agents to ether on its mass, to light as a stream, new, for the power ever kept up, will attest the points.

Now, the rotation velocities are always the first results of heat in a circle round the axis, whether mechanically, as of a rifle ball, or the proportion of pyrotechnical wheels.

We shall test this by the sun and moon at competition by Kepler's third law, as under the free action of the ethereal pressure to the force each has, by its draft of the power, on its fountain supplies; the sun from God direct, the moon by him, through the earth's first receipt from the sun direct.

$$\begin{array}{ccccccc}
\text{Moon's Dia. (ms.)} & & \text{Sun's Diam.} & & \text{Sun's Rot.} & & \text{Moon's Propor.} \\
2156^3 & : & 787494^3\frac{30746}{86164} & :: & 2273316^{2\prime\prime} & : & 1586920102^{2\prime\prime}
\end{array}$$

$$15869292102'' \div 31472014\tfrac{1}{2} \text{ (a year)} = 504 \text{ yrs. } 85 \text{ days } 7 \text{ hrs. } 38'\,13''$$

Several times we have found the moon reduced to half on her congener's values by eclipse needs.

The sun's period we found to be 993 years, about; and 504¼ years × 2=1008½.

In all previous cases the compensations were arrived at, on a rise and fall, over the decimal fulness,—1000. Here, 1000 − 993=7, and 1008¼ is rather close to it, although the earth has to come in to balance it.

There are fractions of time beforehand also, yet how closely do these work to exactitude at our values. But, says the astronomer, you have used the rotative time of the sun to get this for a proportion by periods, solar and lunar.

True; and we have, by the reduced ratio the moon has for her revolution of one to her rotation, a right to do so.

For all bodies must find their power for a revolution, if free to a medium for the regulation, by what the force is for the rotation, as the first root.

Hence, the sun's power to reach the moon is by his rotative value in time to the moon's, as the moon's is to the earth's, by which we got the distances, lunar and solar, for the earth; and this right came from the eclipse law, for the lunar reduction of her period to be equal to that of the rotation. Hence, it follows that the sun's mass force is through the earth's bowels, at work on the moon, at a rise and fall variation over the decimal standard, by the same universal law, that a rise and fall power of variation on the same root is needed for all tables.

Also, as his rotative force is the valuation to ether for his first overcoming inertial weight (at the attraction of all his mass to rest on his centre), so it must be to the moon's times, whether revolutionary or rotative, because they are both alike. And so, she is her own divisor by his mass to his lowest time, for her revolutionary proportion also as a free globe to ether, by the powers she is supplied with through the earth's bowels from him. How closely the sun is bound to the decimal order direct by his demand for office, is thus seen as follows:—

E.'s diam. **Sun's diam.** **A year.**
$7912 : 787494\frac{30746}{86164}'' :: 31472014\frac{1}{2} : 3132461277$
$7912^3 : 787494^3 :: 31472014\frac{1}{2}^2 : 31251170688^2$
$31324612770'' - 31251170688'' = 73442082''$
Moon's time, $2354219\frac{1}{2}'' \times 3\frac{1}{7} = 7398974''$
Sun's rotation, $2273316'' \times 3\frac{1}{7} = 7144707''$

Thus, the balance of the moon to × $3\frac{1}{7}$, which is equivalent to a revolution, finds a response, both in the sun's variation from direct to the earth on diameters to time, and what it is by Kepler's third law, and then to his own rotation of time the same. This proving our previous point.

Now, the square of the circle itself will give a similar result. Thus—

$7912 : 787494 :: 3{\cdot}142857\frac{1}{7} : 312813593$
$7912^3 : 787494^3 :: 3{\cdot}142857\frac{1}{7} : 312082924^2$
$3128135930 - 312082924 = 7333006$

$7398974 - 7333006 = 65968$ diff., and the earth's force by velocity, through the impact of the balancing medium, is 62569 miles per hour, standard to all.

One point more we may here note.

We have demanded for the sun, as Moses taught, that science proves he is the central ruler, by his mass in weight, of all the universe.

Now, Moses also taught that the sun for his office, direct on the earth, was to rule (with the lunar orb to balance his force, as the balance-bob of the three, and all the system) the earth's day and night; and that all other globes are so made and set, to aid this, by the firmament they are set in.

Then, as all is, by ellipse, tabled for automatical decimal practice for this, we might expect to find evidence of it from the sun's force, per day, to the tabled values for reactions; and, for his impact-power through ether, we found, by his proportion, on the very root of Kepler's law, and all law, by mass to mass, in gravitation, that his velocity per hour is 150107 miles per day,—the tables' reactions allowing 150515 on cramped demands. He stands on the proper number of decimals—six, by six chords to arcs of the circle. And this is found for the day, by seconds to miles, proportional, for times to measure, by weight to measure, as do all astronomers. So ends this paper.

THE COMPARATIVE PROPORTION IN ALL PROPERTIES OF TRANSMUTATIVE LAW FOR THE GLOBULES OF LIGHT TO ETHER.

THIS point has been already introduced; but it must be proved on especial tests, to secure results. We shall start our evidence on the most simple roots integral.

Table 1.

$$\begin{array}{r} 987654321 \\ +\,123456789 \\ \hline 1111111110 \end{array}$$

This represents the major settings as a nucleus fluid projected into a medium with the major force taking the lead by weight from right to left, then light in flood, drawn by attraction finding the extreme of attraction by it. It develops the lightning flash by friction in mass to mass, with the cypher at ellipse in finish.

Table 2.

$$\begin{array}{r} 987654321 \\ +\,1111111110 \\ \hline 2098765431 \end{array}$$

Here, the dual globule appears by transplantation, in the continuing quotient of a constant flow of the power, and in due ellipse, lost at the entrance. For light must melt at entrance to the firmament itself from the crystal.

Table 3.

$$\begin{array}{r} 987654321 \\ 1234567890 \\ \hline 2222222211 \end{array}$$

Here, the ethereal power of a proportioning medium over light, at draft, by all the integers, appears in the ascendency; but followed closely, by the power in units, of the ellipsis developed.

Table 4.

$$\begin{array}{r} 987654321\\ -\ 123456789\\ \hline 864197532 \end{array}$$

All the solid integers are there, but the cypher cannot appear to this draft of the upper term by a supply, such as this only. Yet, we see the means to get up any forces required by the master at design, for a nucleus, that will fit factors to factors. We see how the bowel fibres may be made to vary in strength; and the bloods at the same claims.

Table 5.

$$\begin{array}{r} 987654321\\ +123456789\\ +1111111110\\ \hline 2222222220\\ \hline \end{array}\qquad \begin{array}{r} 987654321\\ 123456789\\ \hline 1111111110\\ -111111111\\ \hline \end{array}$$

$$\begin{array}{lrl} \text{The firmamental right,} & 999999999 & \text{At death's door.}\\ & +111111111 & \text{Light at flow.}\\ \cline{2-2} & 1111111110 & \text{Resuscitation to life as explosion.} \end{array}$$

Table 6.

$$\begin{array}{r} 1111111110\\ +2222222221\\ \hline 3333333331 \end{array}\qquad\qquad \begin{array}{r} 2222222221\\ -1111111110\\ \hline 1111111111 \end{array}$$

By the action of successive values we get to the third integer, under action to reaction of the dual and unit globule. So, these last must be the ones fitted to interpret between them as the power; and by its reactor for the proportions of all bodies, by masses of them in columns dual to floods, new, as the multipliers by attraction for ever.

Our next table is the simple derivative of Kepler's third law.

Table 7.

$$\begin{array}{lrcccccc} \text{Over all for} & 2^3=8 & : & 4 & :: & 2 & : & 1\\ \quad\text{cooling to} & 8^2 & : & 4^2 & :: & 2^2 & : & 1\\ \quad\text{heating.} & 8^3 & : & 4^3 & :: & 2^3 & : & 1\\ & 8^3 & : & 4^3 & :: & 2^2 & : & \frac{1}{2} \end{array}$$

Kepler's law is reached by the power to reduce the normal integer material into fractions by chemical transmutation.

We shall now test the dual globule, as that proves, by an earlier paper, to be the rotatingly-developed value of added integers by the unit leader for all tables. As by six figures 22, and by seven 222, &c., and this under 7, the central rotator of numbers to units in flow under their previous existence in the firmament.

Table 8.

$22 : 7 :: 11111 : 3535{\cdot}7$ for ever, at units added.
$22^3 : 7^3 :: 11111^2 : 3976787{\cdot}4157 = 1994^2$
$1992 \div 2 = 996$ Sun's period is 993 years.
$22 : 8 : 11111 : 4040$ for ever.
$22^3 : 8^3 : 11111^2 : 24365^2$ Earth's circum., $24866\frac{2}{7}$ ms.
$22\frac{1}{2}^\circ = 81000'' : 84420''$ (Earth's eclpt.) $:: 24365'' : 25392''$
Diff. to $25392 - 24365 = 1027$

Now, both the sun and earth have their diameters near 8 for the leading integer to develop their circumferences by light to ether. So

$$22^3 : 8^3 :: 11111111^2 : 2436455^2$$

The sun's circumference being 2474981 miles as found by our system herein. This clearly proves the Mosaic expression, "And God saw the light good," to mean the force of light generating the swell of heat to give the unformed nucleus its fitness for rotation in day and night. So do all nuclei germs for organical time-keepers get their constitution at His setting of nuclei or seed of first parents.

But we will give a table on roots further on.

Table 9.

$22 : 2 :: 11111 : 1010{\cdot}2$ for ever by units added.
$22 : 3 :: 11111 : 1515{\cdot}3$ „
$22 : 4 :: 11111 : 2020{\cdot}4$ „
$22 : 5 :: 11111 : 2525{\cdot}5$ „
$22 : 6 :: 11111 : 3030{\cdot}6$ „
$22 : 7 :: 11111 : 3535{\cdot}7$ „
$22 : 8 :: 11111 : 4040{\cdot}8$ „
$22 : 9 :: 11111 : 4545{\cdot}9$ „
$22 : 10 :: 11111 : 5050{\cdot}10$ „

This table proves our "plant," in a firmamental divisor, subject to rise and fall in columns over and through all organical solids, is perfect, as of all dual globules, against light in units, for the awakening, multiplying excitor to change. Then by

Table 10.

$123456789 \times 2 = 246913578$
$2^3 : 7912^3$ (E.'s dir.) $:: 2 : 123822293632$
$2^3 : 7912^3 :: 2^3 : 247644587264$
$2^3 : 787494^3$ (S.'s dir.) $:: 2 : 122090631999682698$
$2^3 : 2156^3$ (M.'s dir.) $:: 2 : 2505453104$.

By the first and third we have the indicative for the earth's and sun's circumference at a line; while the fourth follows suit to the second, to show that while his current is not so closely set to give off the lower line of integers as hers, it has the difference of more refinement, each being subject to condensative values by the pressure over an ecliptic angle to the axis of rotation by the upper firmament in pressure acting spherically.

Now, these two quotients (the second and fourth) are witnesses to the close setting on near 7° for the sun and 22½° the earth, for the blood reactions to be as close as possible to the hottest boil from that of the extremes of bloods from the heart.

The moon's bloods or central fluids are seen to start at × 2,—or of a double coldness. The sun's refining power to throw out so much light is in his immense mass over the centre.

We can now graft in a more general table to show out design by an omnipotent spirit, the maker and settler of all.

Table 11.

1. Earth's diameter $7912^2 \div 2^3 = 7824968$
2. Sun's do. $79494^3 \div 2^3 = 7751847648$
3. Moon's do. $2156^2 \div 2^3 = 58240747$
4. $7912^2 \div 22^3 = 5879$
5. $787494^2 \div 22^3 = 58240747$
6. $2^3 : 7912^2 :: 2 : 123822293632$
7. $2^3 : 797494^3 :: 2 : 122090631999682698$
8. $22222^3 : 797494^3 :: 1111^2 : 2344075^2$
9. $22^3 : 7912^3 :: 11^2 : 75015 \times 22 \div 7 = 23856$
10. $7912^3 \times 11 = 548180919808\ \sqrt[2]{2334135''}$; nearly lunar time.
11. $7912^3 \div 11 = 247644587264\ \sqrt[2]{497640''} \div 2 = 248820''$
12. $787494^3 \div 11 = 244188263993635368\ \sqrt[2]{49414700} \div 2 = 247073500$
13. $2^3 : 7912^3 :: 11 : 681022614976$
14. $7912^3 \div 2^3 = 61911146816$
15. $2^2 : 787494^3 :: 11 : 6714984759982547 63$
16. $787494 \div 2^3 = 610453159998413 49$
17. $2156^3 \div 2^3 = 1250476552$
18. $2156^3 \div 2 = 5010906203$

The beautifully-arranged waltz-like action to reaction in times by the whole music of the spheres to regulate it is here before us of three in unison.

The two first quotients show the earth and sun able to keep their Sabbatic number under the division of the ethereal weight, represented by the normal value for it in 2^3. The female hotter at the tempering than the male, yet, as a wife to her husband's rule.

Then follows the reaction over the central values of decimals, 5. Nos. 6 and 7 we had before. No. 8 gives us a quotient by light to ether on the sun, near to his own and the moon's rotations.

Number 9 gives an endorsement to the lunar and solar times, by the earth's writing it; number 10 the same. 11 and 12 provide final quotients from a sum much like the moon's diameter of orbit to their own circumferences, the earth's being to observation; numbers 13, 14, 15, and 16 we have traced before, to be found in other likenesses; and number 17 shows the moon at work under her reduced rate direct to numbers 6 and 7; while 18 presents her reduced to rotate, and revolve to the earth's faces, on the final central value of decimals.

Now, 246913578 (from Table 10) × 9 = 2222222202. Thus 9, the approver, verifies our theory that the upper firmament must work over decimal reactions, by dual globules, but as subjects to ellipse on others in terminals, head and foot. The eighth quotient (Table 11) off the sun's mass is but 2 hours 49 minutes $4\frac{1}{2}$ seconds difference from the moon's times, and 81603″, or nearly a day, from his own rotation.

We can now follow on to higher proportions.

Table 12.

2^3	:	7912^3	: :	11^2	:	2737014^2
22^2	:	7912^3	: :	11^2	:	75012^2
2^3	:	787494^3	: :	11^2	:	2717600000^2
22^3	:	787494^3	: :	11^2	:	73749000^2
2^3	:	7912^2	: :	111^2	:	27371100^2
22^3	:	7912^2	: :	111^2	:	75079
2^3	:	787494^3	: :	111^2	:	27425000000^2
22^3	:	787494^3	: :	111^2	:	75185200^2
222^3	:	787494^3	: :	1111^2	:	234720000^2
2222^3	:	787494^3	: :	1111^2	:	741250000^2
2222^3	:	7912^3	: :	111111111^2	:	23607038^2
2222222222	:	7912^3	: :	111	:	24780
22222222222222^2	:	787494^3		111	:	2439378

Earth's circumference, $24866\frac{2}{7}$; sun's, 2474981 miles.

Thus light acts on the bowels of each of these globes, or the masses, almost direct. The earth by 10 of ether to 3 of light, the sun at the royal standard, 14 to 3.

The extensions of the roots are left here in cyphers, as the point is the effect of the globule 2, for the upper ether, changing the reactions from 2 to 7 for the lead of the quotient, under Kepler's third law in its root,—that is, the mass-to-mass powers of the encircling medium to the circling value in the time-keeping organised astral wheels. For all globes must work to the same forces of change as the earth and sun,—even the moon, as between light to ether, for her reduced proportions to the earth's operations, the same.

Thus the great point as to the ethereal firmament's value and forces right through the bowels of all globes is demonstrated. The single addition of one column in a globule more to another produces the reactions under light, the awakener of it, and all in it, as streams from without between 7 and 2.

If we want to see how the upper ether required to be expanded, to meet the sun's demands to get his rotation to what it is, as compared to that needed for the earth alone to get her form and its circumference, the following table will indicate it :—

Table 13.

$$
\begin{array}{rcrcrcr}
22222^3 & : & 787494^3 & :: & 11111^2 & : & 2344076^2 \\
222^3 & : & 7912^3 & :: & 11111^2 & : & 2364029^2
\end{array}
$$

The two last equations of the previous table show this contrast by columns, and at their simple lengths to light, the same. Here we have the ethereal heaven reduced to three globules of ether, as compared with five for the sun to obtain the same number of figures.

But this, it must be remembered, is at the present full growth of the earth's diameter for her mass; and the less quantity in proportion must have been needed at her birth, from the lowest nucleus possible. Although the contrast in the mass-power of the sun was so great to that of his consort, the earth, yet the ethereal heaven, by the distance from him it could hold her, gave the relief needed; and as to his fiery beams for her bowels sufficiently afar, that only the new values of heat required for her further development of the surface lands existed, as births to his impregnations of silicates and metals from his fit make for natural generations; and while this provided the valves of escape by the volumed throes of her newer births of land, the planets also were made to assist by their draft the relief of the solar oppressive powers.

But for other points.

Table 14.

$$2^3=8 \ : \ 2156^3 \ :: \ 11 \ : \ 13779992072 \text{ direct.}$$
$$2^3=8 \ \div \ 2 \ = \ 501090603$$
$$222^3 \ : \ 2156^8 \ :: \ 111^2 \ : \ 11285850 \sqrt[2]{} = 3359$$
$$2222^3 \ : \ 2156^3 \ :: \ 111^2 \ : \ 112651 \sqrt[2]{} \ = 335$$
$$2222^3 \ : \ 2156^3 \ :: \ 1111^2 \ : \ 11285713 \sqrt[2]{} = 3359$$

The moon shows out her reduction between light and ether, first, from 1 to 5, the half of ten to lead. Then we see that it is not the length of the coming stream of light that changes the figure, but the state of weight in the cubic ratio of the upper ether, that alters the leader. But the moon's values all turn in the root, to declare who her lord and mistress is, as the first figure of their times appears. Like a real servant, she glories in and speaks of her connection with royalty. Her duties are not the less manifest as to her Sabbath-keeping actions, unlike many human witlings that walk by her beams.

Table 15.

$$7 \ : \ 22 \ :: \ 2354219\tfrac{1}{2}'' \ : \ 7398974$$
$$22 \ : \ 7 \ :: \ 2354219\tfrac{1}{2}'' \ : \ 767251{,}11$$
$$222^3 \ : \ 7^3 \ :: \ 2354219\tfrac{1}{2}^2 \ : \ 13172^2$$

Table 16.

Earth's diameter, $7912^3 \div 2 = 61911146816 \sqrt[2]{}\cdot 248819$

By the lever, $3956^3 \times 8 =$ the same.

The root found is to the earth's circumference of 24866 miles, but slightly different, when the latter is × 10. So, the action of ether to swell her form under light running through with it to burst over all; and, then, to cool again decimally, is before us for the formative value in the first day for light by ether doing its work.

Table 17.

$$987654321 \ : \ 7912^3 \ :: \ 123456789 \ : \ 61911151314$$
$$7912^2 = 62599744$$

Sun's Rotation. His Axial Angle.

$$2273316'' \times 26492'' = 60224687472$$

Earth's circumference, $24866^2\tfrac{2}{7} = 619332168\tfrac{1}{7}$

$$123456789 \times 2 = 246913578$$
$$246913576 = 493827156$$

The first quotient is similar to the earth's diameter in current at the square, between action to reaction of the two lines of the integers; and No. 3 tallies again with it; as does the second by the sun; while the fifth gives out a *rôle* like the sun's and earth's circumference in tally,—which the last finds for a start to the earth's and sun's roots, or the cubes of their masses. The one giving 49 to begin, the sun 48 to the line.

$$\text{Then } 90^{\circ} = 324000'' : 26492'' :: 246913578 : 19426967.$$

This quotient subtracted from the third term in the way we got the sun's rotation, gives us 227586611 to 2272616″, or a multiple by 100.

Surely, that Jehovah has, as His word declares, worked by line and plummet is clear enough to convince the most bigoted opponent.

Table 18.

Earth's orbit in miles,		=	546992367
Earth's diameter,	$7912^3 \times 11$	=	5448180919808
Sun's orbit found,		=	54443045253
Sun's diameter,	$787494^3 \times 11$	=	537218707986038767

Solomon's circles of exchange are here very forcibly set before us, as of the common accuracy to attraction, and as in animals or globes. That is right through the bowels. So, the rule to a "make" by ether to light is clear; that no possible fitness for a new organical setting can come out so; but only for the true rotation at best of the circle of every fluid and crumb to belong to the old body it came from, or be developed into the rising gases, ethereal, to become rotators again, or fall as precipitate crystals of light, to ever belong to the body that it was generated in. No comet could ever get up, so long as the square of the circle of circulations entire be set truly. Only by evil could they come in. To secure eight figures for the earth's likeness to her times, as we did before by the moon, but now between ether and light, we need the following proportions:—

$$22222^3 : 2156^3 :: 111111111^2 : 33578083^2$$

This giving her the radical benefit of Kepler's third law, as a free globe to these proportions.

Now, the difference, 33578083″ – 31472014″ = 2106069″, or the same number of figures, and the same to lead, the moon's own times have. This in time is 24 days 10 hours 35′ 32″, or rather over the number of her ruling force, the earth, by the first action in hours to a day.

If we use the square of thirteen units to get the solar number of figures—*i.e.*, eleven, we then, by the same other powers, obtain

335780884000 − 31251170688 (sun's period) = 232691312; divide this by 10^3 and we have 2326913, which, to the moon's time differs but 27306″, and to the sun's rotation but 54297, — the one just double the other, for compensation on the circles.

Another set of these harmonised tables is seen. Thus—

Table 19.

$22\frac{1}{2}$°		Earth's Ecliptic.		From last Equation.		
81000″	:	84420″	::	33578083″	:	34995824″
Radius, 324000″	:	317685″	::	,,	:	3293631″
70° = 25200″	:	26492″ (sun's angle)	::	,,	:	33822230″

The second quotient is, by the moon's axial angle, direct, subtracted from radius, on her reactionary right, by ether to light,—instead of the earth's chains, 324000″ − 6315 = 317685.

Further tests by

Table 20.

1.	22	:	7	::	123456789	:	$39281705\frac{15}{22}$
2.	7	:	22	:	,,	:	$388007051\frac{1}{7}$
3.	7° = 25200″ ÷ 7					=	3600″
4.	81000″	:	25200	:	$39281705\frac{15}{22}$	:	122220975
5.	22	:	7	::	987654321	:	$314253647\frac{13}{22}$
6.	7	:	22	::	,,	:	$3104056437\frac{3}{7}$
7.	$314253647\frac{13}{22}$				× 25200″	=	$7919191905889\frac{12}{22}$
8.	$31472014\frac{1}{2}$″ (Earth's period)				× ,,	=	793094765400
9.	$3104056437\frac{3}{7}$				× ,,	=	782222223404800
10.	31251170688″				× ,,	=	787529501337600
11.	$39281705\frac{15}{22}$″				× ,,	=	989898993181
12.	$388007051\frac{1}{7}$″				× ,,	=	9777777685200

The sun's axial angle is to the earth's as 3·4944 less. The moon's to the sun's, $4\frac{1232}{8315}$, but the moon's to the earth's is of 13·2325; or by her months—

6315″ : 2325 :: $2354219\frac{1}{2}$″ (a month) : 866597, or but 1 hour 22′ 37″ over a day, multiplied by 10. If we take the mean of six figures that lead from the last Table, we have for them 791919, 793014, 782222, and 787529; we have 788691, which is but 1197 miles off the sun's diameter too much, and four of each give a mean of 7886, which is by 26 miles too little for the earth's diameter.

Next, we will start another set of squares from the last Table.

Table 21.

1.	$39281705\frac{12}{22} \times 2^3$					=	$31425644\frac{14}{22}''$
2.	22	:	7	: :	987654321	:	$314253647\frac{13}{22}''$
3.	324000″	:	81000″	: :	123456789	:	30861110″
4.	„	:	26492″	: :	$39281705\frac{12}{22}''$	:	3211824″
5.	84420″	:	„	: :	„	:	12047346″
6.	22	:	7	: :	$39281705\frac{12}{22}''$	:	$124985592\frac{11}{22}''$
7.	7	:	22	: :	„	:	123456789′
8.	26492″	:	84420″	: :	$39281705\frac{12}{22}''$	:	125175962′
9.	„	:	„	: :	E's. per., $31472014\frac{1}{2}''$	:	100289426′
10.	84420″	:	26492″	: :	„	:	9876292″
11.	324000′	:	81000″	: :	$39281708\frac{13}{22}$	:	9820424″
12.	„	:	84420″	: :	„	:	10235060″

The harmonies are so direct, and yet, so far on a few fractions different, as to prove the certainty of design for the time-keeping forces of these two globes, on the rule Moses and all science place them; with the requisite skill to meet the material reactions of differences to get the standard.

Table 22.

324000″	:	81000″	:	987654321	:	21604938
„	:	26492″	: :	$388007051\frac{1}{7}$	:	31725561

This second equation with the second term, the sun's axial angle, and the fifth from Table 20, give us two currents similar to both the earth's and the sun's times, but the one just as much more as the other is less.

Table 23.

123456789	×	81000″	=	9999999909000
„	×	324000″	=	39999999636000
987654321	×	„	=	320000000004000
„	×	81000″	=	80000000001000

The qualification for 22½° in seconds to be the final reactor between magnetical sympathies to antipathies, is here made plain, while radius carries, in each case, the first figure of the sun's and earth's periods, as well as that of the index number of diameters to the circle. The decimal ellipse carried in the tables of nature are, as between the first and last results, current between 9 and 1, as in duty bound, for the abstract root, or magnetical forces to the skill by design.

The second and third multiples, divided by 81000″, give us

49387156 and 3950617284; in each of which are all the integers, thus proving the pure circle of spherics. Now, the first starts on the same figures as the earth's mass, and the last the first of the earth's and sun's period; thus, proving their standards by law. Add the force of light to the former, by bubbles from its heat, and we soon get to the same number of figures.

Table 24.

$3880070 51\frac{1}{7}$* × 324000″ (radius) $=1257142845702 85\frac{5}{7}$
$392817 05\frac{13}{22}$ „ $=1272727261 1454\frac{12}{22}$
„ × moon's axis reversed, 317685″$=1247920846 0652\frac{11}{22}$
$380070 50\frac{1}{7}$ „ $=1232640200 42318\frac{4}{7}$

How very closely, by ether to light, she is carried to the lowest state possible for heat, and yet close to the boil of equal hemispheres, is thus proved for her especial design as the balance ultimatum or pendulum to all made.

In further evidence to show the moon's subjection to be the final reduced organical wheel between light and ether, at 2 on the columns of the latter, one over the other, longer or shorter, heavier or lighter, and numerically acting on transmutations of decimal rights, we have the following proofs by the hour to the day:—

Mn.'s Diar.		Sun's Diar.		Sun's Rotation.		
2156^3	:	787494^3	: :	2273316^{2}″	:	1586920102″
Earth's Diar.				A Year.		
7912^3	:	2156^3	: :	314720142^2	:	4476812^2
7912^3	:	2156^3	: :	86164″ (a day)	:	12256″

The first quotient equals about $504\frac{1}{4}$ years.

The last, 51 days 22hrs. 54′ 8″, $504\frac{1}{4} \times 2 = 1008\frac{1}{2}$. The sun's years are found in 993. The 52 days nearly × 2 = 104,—the current values by the sun's mass to rule the moon, although through the earth's body to so reduce the value, and to the day and year, thereby with the relative decimal approach by the earth's period between herself and the moon, mass to mass, to so get this close decimal reduction by 2 to 2, is a clear evidence of how truly Moses speaks of the rule of time in his fourth day; and that all afterward made were so made and set to fit it.

The third quotient shows the earth could not deal with the moon direct without the sun's aid to get such representatives of the design, it being below the lower current decimal, 123456789, in order; by the daily force in the earth equaling that of all the revolution even direct.

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* From Table 1 of Second Set, page 193.

Our next point shall be the sun's fitness for the rule over the earth's day and night so as to carry it on the square of the circle abstract very closely.

Table 25.

	22	:	7	: :	86164″ (a day)	:	27461
	7	:	22	: :	86164″	:	270801
E.'s angle of axis	84420″	:	26492″	: :	86164″	:	27039
Sun's „	26492″	:	84420″	: :	86164″	:	274572

To contract her diameter into 24866 miles, the moon's suction draft has to come.

The telescopical sheath-action of ether by its columns to light is thus seen.

Table 26.

Earth's period,	$31472014\frac{1}{2}''$	÷	2^3	=	3934001·1
Sun's period,	31251170688″	÷	2^3	=	3906396336
22^3 :	31472014″	: :	11^2	:	35736
22^3 :	31472014″	: :	111^2	:	36229029
222^3 :	31472014″	: :	1111^2	:	355053

Thus, as the pressure of the ethereal forces acts to a line or a circle by surrounding it by weight, so the expansion or contraction of the line or chest takes place.

We will now bring a planet into the connection: that one nearest the solar orb. I do not propose to introduce the engineering operations by the "make and setting" of all the planets; but one will prove the fact that they all do the work proposed—*i.e.*, balance the earth's day and night, and so are made to it as standard for all times.

Professor Lynn gives us his period in

87 days 23 hours 15′ = 7579968″

Other astronomers vary the time a little; we use a similar mode to the last.

Table 27.

22^3	:	11^2	:	7579968″	:	86136″	no fractions.
11^2	:	22^3	:	86164″	:	7582432″	„
11^2	:	22^3	:	86136″	:	7579968″	„

By the first quotient we get almost exactly the earth's day. Only twenty-eight seconds too quickly for it. So he has to warn the daybreak, as his office is when seen in the morning. By all three equations there are no fractions as a remainder. And the two last are close to the time the Professor gives for the planet. The last exact to prove the square of a circle is here.

How perfectly globules, 2 for ether in columns to units of light in the stream, will work. Kepler's third law, as exactly as the planets are seen to work, is thus demonstrated on a planet's body under observed time.

7582432″ is exactly 88 days at 86164″
The time of Venus' observed is given in 19361276″
$22^3 : 11^2 :: 19361276'' : 220022''{\cdot}10140$

We never again see by these first powers a globe return, as the earth and sun do, the first figures of their periods by the proportions of the squares over the integers at their current lines.

We can now set other tables to bring together the structural affinities of the three eclipse-working globes.

Table 28.

7°	=	25200″	÷	7	=	3600″
22	:	7	: :	123456789	:	$39281705\frac{15}{22}$
7	:	22	: :	”	:	$388007051\frac{1}{7}$
22	:	7	: :	987654321	:	$314253647\frac{13}{22}$
7	:	22	: :	”	:	$3104056437\frac{3}{7}$
22222^3	:	2156^3 (moon's diam.)	: :	1111111111^2	:	33588820^2
90°	=	324000″ : 81000″	: :	123456789	:	30861110^2
”		” : 7° = 25200″	: :	$39281705\frac{13}{22}$	:	3055237
90°	=	324000″ : 26494″ (sun's ang.)	: :	$39281705\frac{16}{22}$	:	3211824
22	:	7	: :	9876543	:	31425364,16
7	:	22	: :	”	:	310864178,4
7	:	22	: :	3456789	:	10864178,4
22	:	7	: :	”	:	1099887,9
22	:	7	: :	23456789	:	7463523,17
22^3	:	11^2	: :	$31472014\frac{1}{2}^2$ (a year)	:	335000
Earth's period,				” $\div 2^3$	=	3934001,6
Sun's period,				$31251170688 \div 2^3$	=	3900369336
22222	:	7912 (Earth's diam.)	: :	11111111	:	39562180
22^3	:	11^2	: :	$31472014\frac{1}{2}^{2}{}''$	:	335000^2
222^3	:	11^2	: :	”	:	10500
22^3	:	11^2	: :	$31472014\frac{1}{2}^{2}{}''$	:	7121000^3

The outside variations, by which the three to lead is lost, all turn on 1 and 7.

Now, 7912 miles, the earth's diameter multiplied by 11111 = 87910232; and her power to rise, by solar gases, drawn to her bowels to awaken the pyrotechnical furor of heat expansions for a distance in safety is 87021512 miles. This leaves a difference of 888720 miles. Now, the moon's weight must have its influence on this, to keep the earth nearer the sun; and this again from the sun's diameter is but a little over 100000 in 101226.

By multiplying each of the three diameters by units in line for the result of the swell by light, we get an important result.

Table 29.

Earth's, 7912 × 1111111111 = 8791111110232 for ever.
Sun's, 787494 × 111111111111 = 87499333333,245834 „
Moon's, 2156 × 111111111 = 239555555,316 „

The moon takes nine units, the earth ten, and the sun the royal twelve before the central figure is fully returned; when, add unit multipliers for ever, and the results are, the 1, the 3, and the 5. The first, for light to settle in the belly; the sun's, to entertain the triune figure; the moon's to rule her place, as the decimal reactor over all, at 5, central for its powers in transmutation, or $10 \div 2 = 5$ for the root of her final, possible reduction. What a beautiful set of types are here, for man to be equal to see intellectually all light as Jehovah's images. The sun to represent the Triune Deity, fully set in the heart of Jesus; the moon to the Church's full force of reaction to His light in spirit. Yet, without design to change this order direct, each multiple, above, is but for eternal successions of independence to each other, as of the roots for globes between light to ether by terms to terms, or, at most, powers to powers raw, not as factors to mutual returns.

We will next go to the major laying of the three integers by which all follow suit.

Table 30.

$111 : 14^3 :: 321 : 7935,39$
$111111 : 140^3 :: 321 : 7927,48103$

Now, 14 at the centre has been, although by the face or section of a sphere, the standard for our diameter to gain the square of the circle by, and found true for it.

The last quotient is but fifteen miles from the earth's admitted diameter. The earth's less power is the 15 in demand, Sabbatic, of Leviticus.

Table 31.

$$\begin{array}{lrl} 987654321 \;:\; 1000000 \;::\; & 7654321 & \\ & 1000000 & \\ \cline{2-2} & 7654321000000 & (\,7750 \\ & 6913570247 & \\ \cline{2-2} 123456789 \times 6 = 740740734 & 7407407530 & \\ & 6913580247 & \\ \cline{2-2} & 4938272830 & \\ & 4938271605 & \\ \cline{2-2} & 12250 & \end{array}$$

If we divide the other line of integers, we get 7001; so 7 leads either way—

$$9876543 - 7654321 = 2222222$$
$$7654321 \times 9 = 68888889$$

Such are the resources for design between 7 to lead and 9.

We get the double Sabbatic of promise, typified under 1, to lead against the full line of the major integers, with the central figure in transmutation, or 5 followed by the cypher expander at growths into space by a true power, light, the unit-normal. The two last full lines carry the integers of the mass of the earth that lead. The 12250 remainder shows how little remains to approve true law for the carrying on the eternal ellipse, as of the nicest refinement possible.

Calculating machines have been made to carry terms to terms, and powers to powers, I believe. But has one that will do for factors to factors, new and old, without an especial setting for each in the make? The centre of gravity, amid the integers at either line of setting, is on 7, by $5\frac{1}{2}$ of it to $1\frac{1}{2}$, to make the two ends each $22\frac{1}{2}°$. Then 140, our standard diameter, to 7, the lever, gives us $140 \times 5\frac{1}{2} = 770$; and $140 \times 1\frac{1}{2} = 210$, for $140 \times 3\frac{1}{7} = 440 \div 2 = 220$; diff., 10 standard, for transmutative rule and liberty.

Table 32.

For earth,	22222	:	7912	::	111111111	:	39560395,11542
The sun,	22222	:	787494	::	1111111111	:	39375093747,0
The moon,	22222^3	:	2156^3	::	1111111111^2	:	33578085^2

The earth, at the two first sets direct, gets the relative eight figures to her orbital time by nine units to ten, in five globules of ether. The sun needs ten, or the full decimal value, to get his eleven relative in rate,—*i.e.*, without the changes to each by design, to get the eclipse standard at observation. But the moon turns the tables on her master and mistress, and by Kepler's third law, in root, finds the nearer eight figures to the earth's period by ten units at the figure for a square of the times. This not only proves the setting of these three globes for each other, for gases of light and ether flowing through their diameters, but also at the mass ratios by the moon, but it also asserts that the square of the circle is secure between light and ether at these roots used.

Now—

$$33578085'' - 31472014\tfrac{1}{2}'' \text{ (earth's period)} = 2106070\tfrac{1}{2}''$$

the moon's actual time being $2354219\tfrac{1}{2}''$,—thus founding her claim before the compensation of all three by axial angles for their ecliptic girdles are entered.

By axis to axis only, without the sun's—

$$84420'' : 6315'' :: 33578085'' : 2511781''; \text{ and}$$
$$33578085 - 2511781 = 31066304''$$

The courteous royal return the earth and sun make to the moon is—

Table 33.

Sun, $22222^3 : 787494^3 :: 11111^2 : 2344076''$
$222^3 : 7912^3 :: 11111^2 : 2364032''$

The mean of these quotients is 2354054", or but $165\tfrac{1}{2}''$ from the lunar fact.

We know there is a fraction to a mile in difference between the globes, that we have not attempted to find for all three.

The low weight of the moon is thus to be paralleled. For although we assume to get it by the cube of the diameter for proportions ; yet, neither is the sphere equal in mass actual to the solid cube thereof, nor the matter a sphere is made of necessarily heavy. The weight must be always to the proportions of sustaining heat to that of ether by measure to measure, as in a bird or balloon for the standard.

Table 34.

$2156^3 = 10021812416$
$111111^2 = 12345654321$ 1st diff. 2323841905 } **Her times at condensation, $2354219\tfrac{1}{2}''$.**
$2222^3 = 10970625048$ 2nd „ 948812632 }

Being so shelly, and supported by her draft to fill the cavernous form with earth's gases, or her own by them, she is very susceptible to the effect of bad supplies by mankind's erring ways in the case of matter, so that volcanic eruptions take place to throw her solids back to the earth in reproof of the injury.

That ether in dual globules to light, as units, is the true fractional divisor as of matter over matter, the following infant lesson shows at their balances.

Table 35.

$$222 : 7912 :: 11 : 392 \times 2 = 784 \text{ too extractive}$$
$$22 : 7912 :: 11 : 3956 \times 2 = 7912$$
$$22 : 787494 :: 11 : 393747 \times 2 = 787494$$

If this is too much of the baby, why was it not seen by astronomers before? Moses, at all events, made no error about it in Genesis first, so sagely criticised by moderns.

The earth by her overtime to 360° by 365 rotations, as of a day to a degree, carries evidence to her standard purpose, while the current over that in seconds $22154\frac{1}{2}''$ observed does the like by minutes. That being $369'\ 14\frac{1}{2}''$. Also 86164 (a day) $\div\ 22154\frac{1}{2} = 3{,}19700$ which is but of a concessional variation from the square of the circle on the same overplus again. Also, this overplus to a day works concessionally into the likeness to the sun's period by the moon's orbit to the earth's.

Table 36.

$$546992367\tfrac{88}{3600} \div 1497554\tfrac{1045}{3600} = 365{,}385051\tfrac{1356}{3600}$$
$$385051\tfrac{1356}{3600} \times 86164 = 33177566867''$$
$$\text{Also } 2^3 : 7912^3 :: 2 : 123822293632$$
$$123822293632 - 123456789098 = 365504534.$$

Cut off, for an index, the 365, as three figures due to that in condensation of attraction to make a sphere, and we have the same number of figures left as this Table, by the first quotient, gives, and yet by different lines of action, each of which is set to play on the standard to show it.

Now, all these results cannot possibly be of chance coincidences, nor of Darwinian ideas by the fittest, without mental design for the settings, but by it they are the fittest undoubtedly.

Again, the bowel current in the third quotient running into 1238 instead of 1234 will yet be of use in respect of the polar diameter to the equatorial.

The sun, by the same process over his diameter, gives us 12209063449982199. So we find that, although by his immense mass to condense on his centre the heats, yet his mean value within him is somewhat cooler than that of the female bride.* In that is the true type of the man to the woman; hence he is cooler by reflection from the centre on his surface than the earth is.

But for the other point referred to.

If the swell of the earth runs by heat to an average expansion, as above that of the integers by its 1238 found, then it should give a key to find the superior ratio for the belly of the earth to that of the infallible standard by pressure on radiation, which must fall back to that by Diagram 3, it being entirely left to the ethereal action abstract for cooling. So—

123822293632 : 123456789098 :: 365504534 : 36434504

Professor Dick, in "Celestial Scenery," gives us this:—"If the gravity of a body at the equator be 1, at the poles it will be 1·00569, or about $\frac{1}{194}$ part heavier." Let us test by our own roots.

Table 37.

195 : 194 :: 365504534 : 364142972
365504534 ÷ 194 = 1884044 − = 363620490

Our chief point is gained. That is, that the earth's balance for her swell equatorial is resting on a less fraction than the unit of light † for the difference to the equatorial diameter by that of the polar at magnetical reactions. Also in both returns, as well as on the root found, the figures are close in the lead to the number of her days to a year, under the reduction of the line by three diameters, and its fraction by the square of the circle condensing the line into a sphere.

Again, by normal roots. To get the square, we had to use diameter 140 (Fig. 4). The cube of this is 2744000.

Table 38.

22 : 7 :: 2744000 : 873090,20
7 : 22 :: 2744000 : 8624000

By the mean of these two, at five figures for the condensed rotation to time by magnetical reactions, we have 86774″, or but 10′ 10″ over the earth's day of 86164″,—the two fractional parts being both decimal rates direct, with the normal unit for light divided into current fractions following ever to carry on life.

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* It is so; as, although hotter by condensation by his mass for the heart-centre, his less mean density secures a more rapid relief surfaceward proportionately.

† See previous full table for the reduction of the earth's diameter.

Now, this being the earth's standard for her forces of heat to overcome inertia by the times against the ethereal pressure around her, we reckon to be the same in power by the assistance of the pressure of the ethereal heaven in column to column on her bowels and by it to give the distance from the sun. Then add cyphers to this to get the number of figures by the solar mass to her own for that last difference, and that is found in 87021512½ miles.

Do these things tally to show the earth the standard for all on the principles also herein taught under Mosaic revealed instruction, or not?

In addition to this testimony by using light the power at its simplest force in currents, we have

Table 39.

$$2744000 \times 11^3 = 3652264000$$

Earth's period found, days, 365·22154½″

As to sun for his office, as there are nine integers solid for the beginning, in his mass there are eighteen, the double of royalty to expand life, a great type of the spiritual and moral acceptance in Christ Jesus our Redeemer for new gains. Thus, by the square of the solar period—

Table 40.

$97663566937561639334 4 \times 5 = 488317834687805196672 0$

$22222222222^3 = 493837163483951617284$

His diameter, $787494\frac{30246}{86164}^3 = 488362527998730797$

Earth's mass, 7912^3 diam. $= 495289174528$

Period, $31472014\frac{1}{2}''^2 = 990487696688210 \div 2 = 495243848344105$

These condensed by magnetical reactions to a form spherical are as $49528 \div 2 = 24764$. Earth's circumference being 24866 miles. For the sun, $4883625 \div 2 = 2441812$. His circumference found being 2474981 miles.

$$222222^2 = 49382617284$$

In both cases, the squares of the ethereal columns demand the expansion of light by heat to actually provide the solid figures of the two masses; by nine duals to get the sun's eighteen figures, it must at the square give out only seventeen, as, for the earth at six, we only get eleven figures instead of twelve of her mass.

Thus, that light must bring a real mass to add on for ever the universal growths in eternal progress is again demonstrated.

The following affinities for the standard under these two globes is again presented, thus—

Table 41.

$7912^3 : 787494^3 :: 86164^2$ (a day) : 85510820^2
787494 : 7912^3 :: „ : 86^2
7912 : 787494 :: „ : 8576046
787494 : 7912 :: „ : 865
85510820 ÷ 86164″ = sun's day, 992,36132
86164 ÷ 86 = 1001·18
85760 + 865 ÷ 2 = 86130″

How perfectly the sun is made the chief ruler of the earth's day and night is here presented, and any considerable variation of his diameter must damage the evidence, as the moon has to be allowed for, and there is but 34″ now left under Kepler's system of his third law so applied. The application also proving its right.

Also, the fifth and sixth quotients at a mean rate give us very closely the same number of years for the sun's passing around his ruling centre in space, as we found before, by the two masses for the sun's period.

Thus, *that forces of rotation in free ether, as in other true mediums (air for birds and water for fishes), must be ingrafted into the chemical changes through all the body by the breathing forces under gravitation to make the vacuum; and, then, are equal to the forces for the power against the impact of that medium for velocities and distances greatest, —is demonstrated to be a law over globes also.* It is an axiom of physics universally. A pump for all.

The telescopical action of nature on her roots of power in units, new, to reaction or contraction by cold against the heat awakened is further to be illustrated, thus—

Table 42.

1111111111^2 = 12345679000987654321. Then by head to foot.
1234567890 - 123456789 = 1. The spark. The other 0 being active.
12345678900 - 123456789 = 111111111. Lightning by constant light in force coming.
12345678900 - 987654321 = 246913579
12345678900 - 123456789 = 12222222111
12345678900 - 987654321 = 11357824579

With such resources in delicate, or abrupt variations, we see abundant means for omnipotence to work all conditions of factors to each other, under the pillar balances of ether by light for ever, on to eternal circulations by fraction at use for ever. Now, if the nucleus be 9876543, set at work by heat for all the integers to be in work at reactions, then the two bubbles 0, 0, must exist at the first secure result, by gestation under light, and so the fourth quotient shows us the first two figures in a line to carry in the condensed circuit, very closely, the earth's circumference for the first standard, 24866$\frac{2}{7}$ miles, has; then nearing the sun's, at extensions of time and growths for the final ruling centre, but second in time, or made for her as Christ appeared on time, to the need of the Church. So perfectly typical is all nature made. We will set a table to place the earth, growingly, to get to the perfect at God's hand,—the good seen at Eden. See next table.

Table 43.

9876543	× 84420″ (earth's ecliptic)	=	833777760060.	1
98765432	× „	=	8337777769440.	2
98654321	× „	=	83377777778820.	3
111111111^2	× „	=	10422222220137777778820.	4
1111111111^2	× „	=	1042222222201377777778820.	5
11111111111^2	× „	=	104222222222013777777778820.	6
98765432101234567890	× 84420″	=	833777777798622222127380.	7
98765432101234567890	× 3420″	=	33777777778622222218380.	8
1234567890987654321	× 3420″	=	4222222187177777777820.	9
1234567890987654321	× 84420″	=	10422222135717777778820.	10
1111111111^2	× 81000″ (22½°)	=	1099999999800000000100.	11
98765432101234567890	× 81000″ (22½°)	=	800000000019999999909000.	12
1234567890987654321	× 81000″ (22½°)	=	9999999927000000001000.	13
3456789	× 84420″	=	291722127380.	14
23456789	× 84420″	=	1980222127380.	15
987654321	× 84421″	=	83378765433141.	16
987654321	× 3421″	=	3378765432141.	17
123456789	× 3421″	=	422345675169.	18
111111111^2	× 3420″	=	4222222221377777777820.	19
1111111111^2	× 3420″	=	422222222213777777777820.	20
11111111111^2	× 3420″	=	4222222222213777777777820.	21

By this table, we see how perfectly the design to fix the earth's ecliptic angle at 3420″ above the half of 45° or 22½° = 81000″ for her magnetical setting,—so that she was *sui generis* the earth while yet in her decimal nucleus only,—makes her equal to carry the square of the circle between floods of light to square her times through her body, and to work by the other standards, 2, for the return at one extreme, by radiations on sevens, by the inlaying, accordingly as she was receiving light through her bowels, to reach the centre, or radiating from it. Also, we see that 81000″, the divisional right for magnetical sympathies to antipathies of equality in reactions, could not do for her; as, by that, the returns are but nines to cyphers in the belly. That is, in effect between extreme costiveness in solids laid in, and explosive fluctions to discharges.

From this the pathologist and physician may learn a lesson on mediating digestive agents. By numbers 15, 16, and 17, we can see, by comparing them with 7, 8, 9, and 10, how the smallest alteration will throw out the order for either good or evil; and, yet, the response of both values carries their fellowship-connection with the rule to work-in both together. But there is no use in this whatever if we do not allow the squares of light, as of units, normal, in real matter, to circulate through the bowels of all globes, as certainly as in one. The earth here proves for all.

Also, number 3 shows the earth's full circulations are now up to carry seven sevens, or the double perfect number $7 \times 7 = 49$, which two figures also start her mass.

Now the same root standard may be traced to belong to our square of the circle.

Table 44.

1. $7 : 22 :: 9876543210 : 31040564374\frac{2}{7}$
2. $31040564374\frac{2}{7} \times 25200''(7^\circ) = 782222222224800$
3. $7 : 22 :: 1234567890 :: 3880070511\frac{3}{7}$
4. $3880070511\frac{3}{7} \times 25200'' = 97777776888000$
5. $987654321 \times 26492''$ (Sun's angle) $= 261649382719320$
6. $\quad$ „ $\times 25200'' = 24888888888920$
7. $111111111^2 \times$ „ $= 21111111110488888888889200$
8. $\quad$ „ $\times 26492'' = 3270627283885204938271932$
9. $\quad$ „ $\times 26400'' = 3259259259194074074074400$
10. $987654321 \times 3{\cdot}142857\frac{1}{7} = 31040564374{,}285714\frac{2}{7}$
12. $123456789 \times 25200'' = 3111111082800$

Here, by the integers, we again find to the square of the circle, whether that is used as in Nos. 1 or 10, that the earth has given in the previous table the queenly responsive to this standard also, for No. 10 is but the same as No. 1, the extra figures being relative to the first $\frac{2}{7}$ fraction.

But the sun, whether taken at the astronomers' angle, 7° 20″, or my own, is thrown off this return for sevens by 2, like to the earth, on his bowels; and while 7° in 25200″ give us the cubic integer of $2^3 = 8$, and by No. 7 units at one extremity to those in the other, as of true royalty above all (for the cube, we have seen by Diagram 4, stands above the circle), yet, to either our angle or the astronomers', he is thrown off it, whether by the integers (No. 5), or the squares of light by Nos. 8 and 9. Yet we know that by the eclipses he has to suffer this to be adapted to get them between himself, the earth, and the moon. Hence the earth must exist first.

So, the accuracy in the make, for the setting, demanded infinite wisdom and power in the Creator, by whose revealed statements in His Own Book we have been enabled to trace all these interesting and marvellous scientific facts of the true principia of physics.

The solar angle of the astronomers given is by

Table 45.

987654321 × 26400″ = 260740740744000. 1.
123456789 × 6 = 740740734. 2.
„ × 26400″ = 3259259259600. 3.
987654321 × 6 = 25925925926. 4.

There is a closer fellowship here than by 26492″, but while I leave this fractional point in seconds open, we may remember that he has to suffer any loss of claim belonging to his own imperialism at law direct and alone, for him to work with the earth and her moon. A great type of a mightier sun. But now for the moon.

Table 46.

987654321 × 6315″ = 6237037037115
123456789 × 3 = 370370376
987654321 × 6315″ = 776629622535
„ × 3 = 2962962963
„ × $6314\frac{28910637}{314720141}$ = 6236852510043

Here again we get the moon's standard first close to that we find for her axis at its fraction.

But the reverse angle also tells important tales.

Table 47.

Radius, 324000″ − 6315″ = 317685″
" − 84420″ = 239580″
" − 26400″ = 297600″
" − 26492″ = 297508″
1234567890987654321 × 239580 = 295777775322822222225180
9876543210123456789 × 239580 = 236622222222813777777508620
1234567890987654321 × 317685 = 392203700529412962966885
" × 29760 = 367407404357925925929600
" × 297508 = 367293824111965061732068

In this Table enough is presented to show most clearly and demonstratively, that the earth had given to her,—whether ruled by ether direct to light, or by light from the sun to ether, on the change Moses gives her rightly to science, on the fourth day,—the exact equinoctials which should carry the integers of most perfect central reactions the whole decimal order had to provide, while the sun had the nearest he could to the six radical values of chords to arcs.

It is certain that some fraction off 6315″ for the moon's axis of rotation exists; and if so, the sun has to have his balanced to it on a fraction of the normal unit as well. So design must be perfect for it by an Omnipotent Maker. But we have proved that the earth stands, and must, on a fixed value, which for her equinoxes is the one observed.

This proves her place to be the standard to a work which, accurately, in the returns of day and night, all other globes had to be made for.

Hence, however small to them, she had the right place in time to be made first.

So, although we used in Figs. 9 and 10 the proportions for the sun and moon to get her diameter, the two points together only prove that her proportional nucleus, not counted as of mere fluids to a gravitationally gathered cometic nucleus, and its following tail, but of a set ratio with the egg-director of the male's gift, at once, to carry the magnetical reactions to gestate her into a globe, standard, which no comet shows the least inclination for or power to ever attain. See Diagrams 9 and 10.

If the moon never rotates to the face of the earth, her mistress, she does monthly to the sun. Thus typically illustrating a truth, that if a person is not seen fully to be known by the Church, he is to the solar centre given—Christ from within the circle, and to God the Father outside over all.

We will next to this present a full Table on the spherical roots by degrees, minutes, and seconds, to prove the correct value abstract of 60 to carry the fractions from degrees standard, as by the chords to arcs of a circle for the divisional operation.

Table 48.

987654321	×	360°	=	355555555560.	1
		2160′	=	2133333333360.	2
		1296000″	=	1280000000016000.	3
		180°	=	177777777780.	4
		10800′	=	10666666666800.	5
		648000″	=	640000000008000.	6
		90°	=	88888888890.	7
		5400′	=	5333333333400.	8
		324000″	=	320000000004000.	9
		45°	=	44444444445.	10
		2700′	=	2666666666700.	11
		162000″	=	160000000002000.	12
		22½°	=	22222222222½.	13
		1350′	=	1333333333350.	14
		81000″	=	80000000001000.	15
		11¼°	=	11111111111¼.	16
		675′	=	666666666675.	17
		40500″	=	40000000000500.	18
123456789	×	360°	=	44444444040.	19
		21600′	=	2666666642400.	20
		1296000″	=	159999998544000.	21
		180°	=	22222222020.	22
		10800′	=	1333333321200.	23
		648000″	=	79999999272000.	24
		90°	=	11111111010.	25
		5400′	=	666666660600.	26
		324000″	=	39999999636000.	27
		45°	=	5555555505.	28
		2700′	=	333333330300.	29
		162000″	=	19999999818000.	30
		22½°	=	2777777752½.	31
		1350′	=	166666665150.	32
		81000″	=	9999999909000.	33

No table we have used more certainly represents the folly of the Darwinian dream for the origin of species than this.

All chemists agree with Moses and the demonstrations of our diagrams for the birth of numbers, to work by heat to cold, or subtraction to removals and transmutative changes by sets-down, to weights left by gravitation on the decimal radex for all reactions. This our diagram under the tables of spherical trigonometry and direct numbers to each other, with its geometrical thesis, all make certain, as it was before by God's Word alone, to sensible men. Then, by these, action and reaction, our last table proves, must go on in a simple round and round boil, if not set off the roots of figures direct, or powers to powers by them. Explosion comes alike by Nos, 3, 6, 9, 15, and 18, on the main line by action before we get to reaction at all. But as 81000″ must be the reactionary point for magnetical sympathies, entire for light to act at all, as bringing it to work the boil even; yet I have carried it down to show how the bowel reduced fractions would produce minor degrees within, of volcanic results, although not reaching to the whole body. It will not, even so, fit organisms. But nature finally works back to 90°, the right angle, if left to itself at setting.

At the minor setting of the line, a flash of lightning or a tremendous electrical shock through, is found at 90°, as at the greater reach down it has at No. 16.

Also, No. 2, in action, is met by 22½° (or No. 13) by 180° at reaction, or No. 22. The whole results are round and round of the most terrific operations for a boiling hell by those who will not have any God to work; and so, first make and set factors to work with each other, and for each other, as we know by observation the atmospherical conditions do to find by vegetable operations at night, the best atmosphere for man at morn. The observer may notice that the table never returns to repeat No. 1, and, clearly, never could. So, in any case, design or not, nature can never be in her infant state again. She must be changed for progress or for worse at operations under light from God. So of man by revelation. Yet the tables' rule is needed over design.

The sublime perfection of the Divine system is too clearly here made plain for any hope of future denial, except by the meanest intellects or most desperate bigots. So mind alone can make or rule a species.

If we compare by Table 43 No. 3, with Table 48 No. 4, we see how directly the earth has the standard place at her ecliptic's value, as 180° is of hemisphere to hemisphere in the rotations, by the major laying of the integers; and, as it is further proved, by the three following values in the former table, from 22½°

by the same on the squares of light as the time developers by Sabbatic inlays.

To avoid difficulty we will condense this still by evidence in

Table 49.

Action to reaction by	987654321	×	180°	= 177777777780
hemispheres primal.	123456789	×	180°	= 22222222020
As spherical roots	987654321	×	$22\frac{1}{2}$°	= 22222222222$\frac{1}{2}$
magnetical.	123456789	×	$22\frac{1}{2}$°	= 2777777752$\frac{1}{2}$
By the earth's	987654321	×	84420″	= 83377777778820
ecliptic standard.	123456789	×	84420″	= 10422222127380
The overplus to	123456789	×	3420	= 422222218380
$22\frac{1}{2}$° = 81000′	987654321	×	3420	= 3377777777820
Standards	314253647$\frac{13}{22}$	×	(7°) 25200″	= 7919191919290$\frac{20}{22}$
from Table 28.	3104056437$\frac{3}{7}$	×	,,	= 7822222223200
Minor	388007051$\frac{1}{7}$	×	,,	= 9777777688800
setting.	392817050$\frac{15}{22}$	×	,,	= 989898967718$\frac{4}{7}$
	987654321	×	7°	= 6913580247
	123456789	×	7°	= 864197523

83377777778820 − 3377777777820 = 80000000001000
10422222127380 − 422222218380 = 9999999909000

In the last quotient but two we have for the first four figures 86419 to 86164″, the day, difference 4′ 15″ only to contractile cooling.*

Also, that evidence is attainable for six or sixties by chords to arcs as the proper ratios for dividing from hours on to any extent, will be thus seen.

Table 50.

987654321 × 1296000″ (360°) × 60 = 76800000000960000
× 60 = 4608000000057600000
123456789 × 1296000″ × 60 = 9599999912640000
× 60 = 575999994758400000

Let, therefore, the multiplying power by chords to arcs go on by light new for ever, yet the mingling, then, of the other integers together must resolve back to the roots as for times true.

Should the question arise, If $22\frac{1}{2}$° carries the day for equal reaction of magnetical sympathies to antipathies, how does 22 to 7 carry the reaction? the following table will set this point clearly, as 7 : 22 is for fractions,—

---

* See also Table 27.

Table 51.

22 : $22\frac{1}{2}$ :: 324000,000 : 331363636,8 for ever, by decimals added
22 : $21\frac{1}{2}$ :: " : 31663636363,14 do.
22 : $19\frac{1}{2}$ :: " : 287181818,4 do.
22 : $7\frac{1}{2}$ :: " : 110409090,2 do.
22 : $1\frac{1}{2}$ :: " : 22090909,2 do.
But 23 : $22\frac{1}{2}$ :: " : 316956521,17 chaos resulting
23 : $1\frac{1}{2}$ :: " : 21130434,18 do.

So it is only 22 for a divisor, or the representative of the ethereal heaven in columns of dual globules, that will carry on the squares of circles of weight to measure by adding the bubbles or cyphers new to add to the remainder left by true proportions to life for ever. It is all a resolving into chaos otherwise, and it must be set as A over all in a cube for columns to lines true to each through all bowels whatever, however imperceptible to sense, since air was raised to be its divisor from the ether, waters, or solids alike. But 7 carries also truly the reaction. Also, whether we use $3\frac{1}{7}$, $31\frac{3}{7}$, $3,14\frac{2}{7}$, $3,142\frac{6}{7}$, $3,1428\frac{4}{7}$, or $3,14288\frac{5}{7}$, or $3,14287\frac{1}{7}$ to multiply the diameter 140 with,—the circumference, 440, appears of necessity, and so for any diameter. But these show the required changes in the current for life-eternal needed for any axial angle proposed.

No future discussion can ever arise that the square of the circle is not found, or how. That amidst such a multitude of calculations some slight error may be entered is possible, although I have been careful; but not one will exist to touch the principle involved in the teaching, I am assured.

CONCLUSION.

We are arrived, now, at a point for our time to sum up the leading objects to a full settlement.

The question has been put by others: What is life? and it follows by antithesis: What is death?

It is scientifically answered both for the body and the joy in its extant spirit—as being conditioned or not, for breathing into God in righteousness (Genesis ii. 7).

The Creator of every mass, or atom, must sustain its existence whether for good in obedience to the divine laws He has taught for health, or the opposite, as it is needful to carry out the responsibility for peace in moral integrity to the human freedom of action. So, the Apostle John says, quite scientifically, "All things were made by Him (Jehovah, Jesus, the Word), and without Him was nothing made that was made."* Then, Paul the Apostle says, equally truly to fact and science now attained, of "The Christ,"—"Who is the image of the invisible God, the first born of every creature; for by Him were all things created, that are in heaven and that are in earth, visible and invisible, whether thrones or dominions, or principalities or powers: all things were created by Him, and for Him, and He is before all things; and by Him all things consist." † This, we have shown, all nature, by her laws, pronounces to be true and scientific. Yet could not either Apostle know it in that age, except by revelation; for the progress of science, by all we know of that time, did not attain to it. But this, so shining a fact, John says of this life-warmth which, in a due measure, is an infusion from the bosom of the Father, "Shined in darkness, and the darkness comprehended it not." This must apply to man, and has been certainly verified up to our day by the atheists and neological pretenders to science in an enormous degree. And but for the assistance of the Mosaic account, so despised by them, their efforts extended only to darken the darkness. The king, however, most wise amongst the ancients, who was also a prophet inspired, said on life (Proverbs xxx. 8):—

> "Feed me with food convenient for me:
> Lest I be full, and deny thee,
> And say, Who is the Lord?"

The marginal rendering is, "My allowance," and "Belie thee." Nature never belies Jehovah's Word. All physicists admit the need of suitable food being required to keep life up in any motive body; and only a due allowance at a time of the right sort. Herein we have proved this for our globe; as the consistently mother vessel of all made; especially in regard to man, for Christ's royalty. There could be no consistent universe on other terms. The Bible teaches by inspiration of God true common sense. So death is the loss of power to assimilate the food convenient, or to just claims by measure to measure, and sort to sort, for any cause which leaves the tissues capable of its further acceptance, whether from starvation in not enough, or burning and scald by too much for the steady action for the square of the circle of times.

---

* Also, see Psalm xxxiii. 6; Job xii. 10, xxxiii. 4, and xxxvii. 10; also, by the same sage, iv. 9, xvii. 1, and Isaiah xi. 4 and xxxiii. 11.

† Another translation here uses the word subsist, *i.e.*, continue to exist. Either word means, not self-sustained.

I have stated before that this last point, the square of the circle, I have known it many years. This, considering its means to celebrity, may lead some to surprise, and others to doubt it entirely, and say, Then why did you not out with it before? My answer is, that I took up with Physics not to please myself, but to prove the Bible statements had been hastily rejected; and I continued my labours at first in this work to attest the truth more fully on points before presented to the public in different ways by me.

I searched for the square of the circle as a new point to my consideration; but when I found it, it became so useful to my earlier objects, that I secured it for them.

Now, to any sensible mind, it must be clear that I could not in a short time have interwoven it to advantage for the other objects it is useful to secure; and that with my other earlier vocations of evangelistic labours, and pastoral work over a considerable sphere of two counties, a very long time must be required.

It took, also, much time to set each new point of discovery in its right place, even to the degree presented in this work; and what to find them? Earthly present celebrity I hold to be a mere *ignis fatuus*, perfectly useless; keeping men from seeking the "One thing needful,"—*i.e.*, how, personally, by life, to enjoy the future, and all labours God can own for it as of value to Him. I may note here a few points in regard to the views of geologists.

They admit the great changes in the climate this earth has seen; and the Bible accounts for it on scientific grounds.

That the character of light, as to the earth's receipts, amidst that for all the universe, did not contain the same exact features for heats as at first up to the coal measures. Now, when the earth was associated with the sun, after this earlier stage when she must receive that light direct from God, it is clear, such a new force, by the primal power coming through the sun, as the dissector of his own metallic conditions, for flowing off set gases to her bowels, the fact that this earth; as geology has fully presented, must, for a time, have received immensely hot exciting forces, to disrupt her masses, and require long times to cool the projections again thereby made down, is obvious, and yet not in the least to alter the value for her especial condition, for her figure or "make," by the settled axis of 23° 27′ by the ecliptic angle, as by it form is ruled.

Does the child's axis do more than stiffen by the growth, and different food needed as age increases? Is it not in the seed settled for? Does a woman's not run through the inflammation of births? Thus, that the northern regions show there was a time for such hot returns of summer, when far beyond Scotland, where this book is now printing, and much nearer the pole, animals lived and trees grew, which could not live and propagate freely their genera in so cold a state as our present spring of 1885 is giving us this year.

Even in Devonshire and Cornwall, we have now colder weather in the latter part of May than we have in December. All such changes, as the present state of the earth's unalterable axial ecliptic allows, occur yearly in degrees, as it has since in April, when the earlier parts of this work were printing, become colder,—and all follow the reactions of solar light over the elements it acts on, for the preservation of a steady ecliptic, but an extending force to keep up the life motion by all creation on ecliptical reactions of variety.

So, the sudden condensing value of the sun's body, and the new metallic means to active generations, must have aided to throw up the mountains by higher heats, so to be greater, yet to the setting beforehand given, for the variation of each hemisphere by one ecliptic angle, to cool back to equilibrium in due time.

The minor changes, for all plants and animals, required to meet it, as dependent organisms, being assistant coolers and regulators of the times; the laws, then, for the globe herself, must be those for all her departments as found. What I have used the square of the circle for, has been more fully to attest my first discovery in science,—"the universal centrifugal force," as revealed to me for the third power, made in a covenant constant, over all in that magnificent pledge, "Let light be," or current for life support to all made for ever, in the milk thereof from the bosom of the Creator. The Bible our document for it.

My earlier works published attested this fact, although now, through several misfortunes, out of print; and the introductory sentence of the editor of Pitman's *Lecturer* on this subject that I had sent him—"The Force of Light, which he printed in 1861; and the fact that Professor Hunt had but shortly beforehand in his book, "The Poetry of Science," stated that light and electricity, for the centrifugal force over all, had been given up by savants, and that probably the Creator had so hidden it, it never would be found—suggests this, that except by faith in the Bible and the Holy Spirit, as the promised Teacher of all truth, neither that point respecting the result of all evidence that no body, great or small, can ferment constantly in a vacuum, and so must have a means, by its draft through, in an outside creator and mediator of fuel supplies; the certain existence of an upper, ethereal, material divisor, and equalised medium; or the square of the circle would have ever been attained.

Professors of science had so stamped their ideas respecting globes being able to work their various times and elliptical orbits, in spite of the savants own theory, that the "attraction" to danger was greater as the fall to Perihelion brought them nearer each other; the "expression" itself so against it, also in error, respecting the increase of attraction by the mere inverse ratio of the distance of the masses in space empty; and the use of the decimal fraction to find the centre for the integers in their development by transmutations, for the reactions of a mass centre, were so stamped into the schools from childhood, as infallibly proved facts, that scarcely a mind could be supposed in its right order that called such theories into question.

To the Lord be all thanksgiving, who has kept my intellect and the directing of its thoughts sound, while seeking to deliver His word from the exulting shouts of His enemies, and the seducers of mankind. To Him be all the glory!

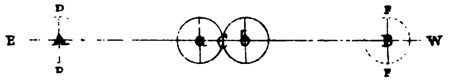
I also tender my grateful thanks to those kind and pious gentlemen who have given me their sympathy during my labours.

Most freely I express my sense of the full value of those honoured labourers, who, amid all the currents of the conflict, have so nobly, in other branches of the subject opened, firmly stood by the Word of God.

"The Lord Almighty our Leader is."

S. W. PARTRIDGE AND CO., 9 PATERNOSTER ROW, LONDON.

FIG 1.



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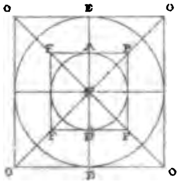

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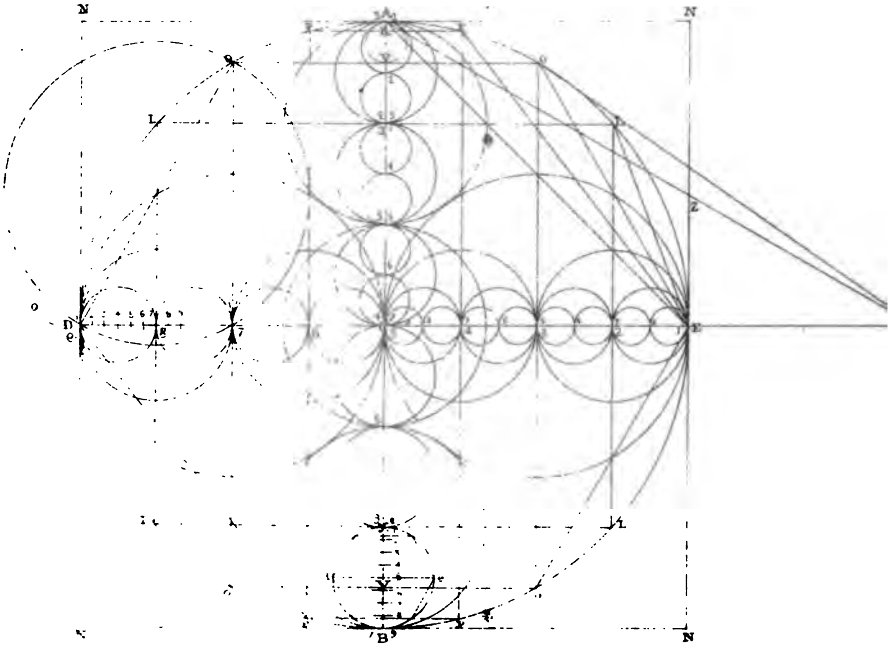

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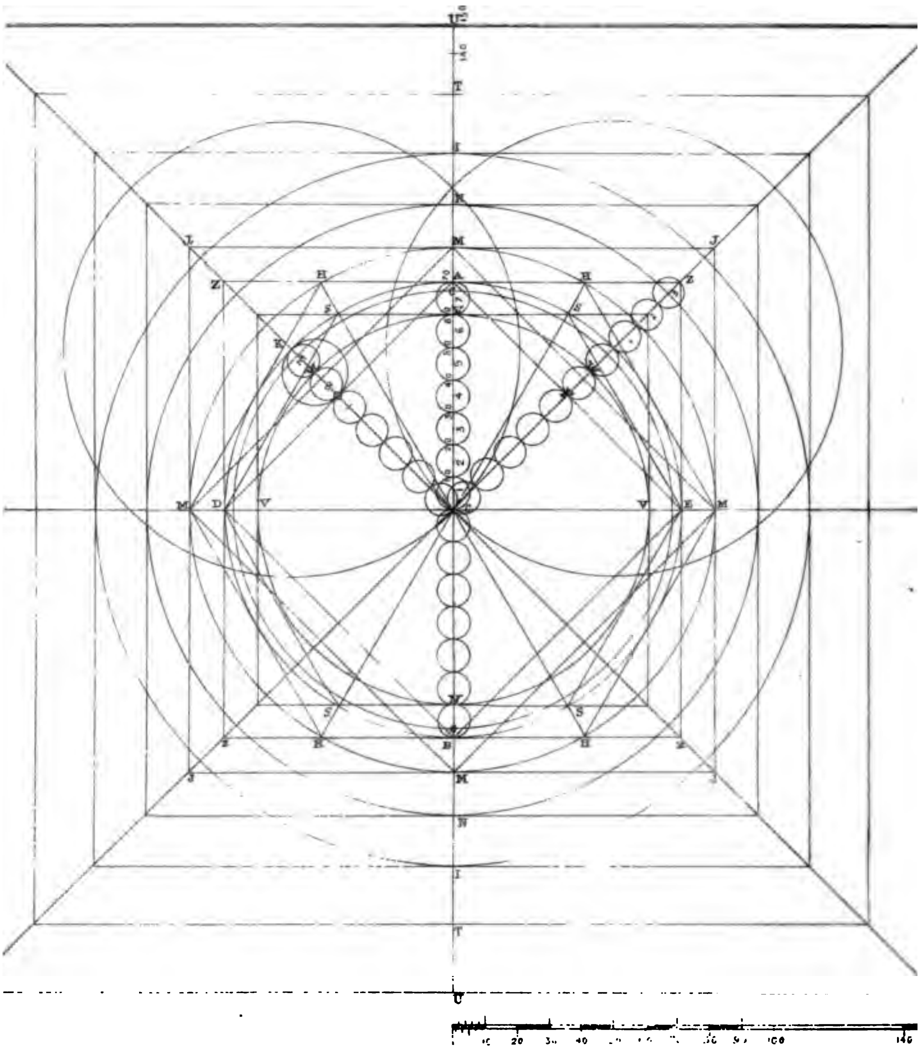

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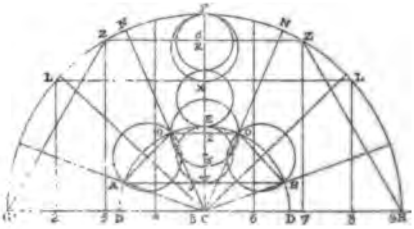

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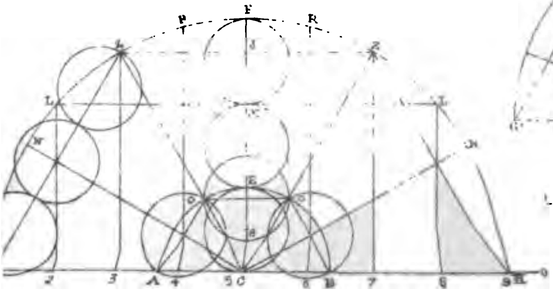

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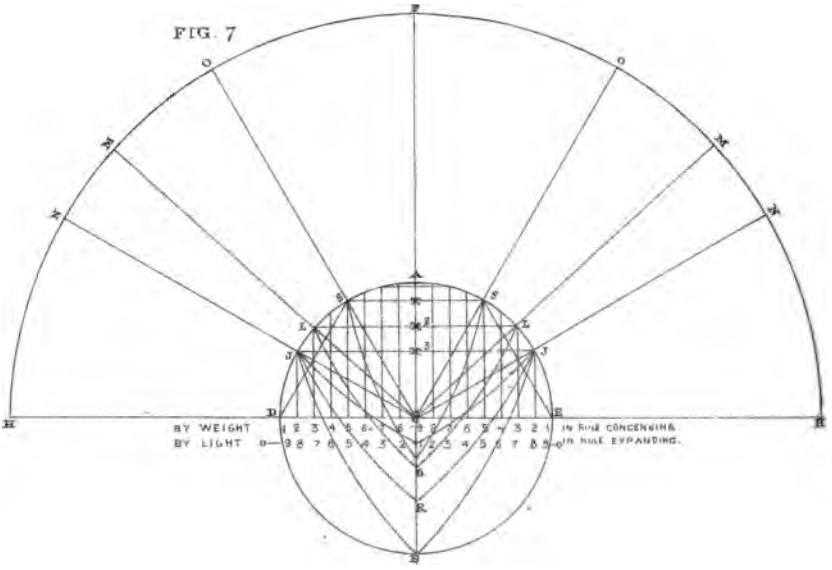
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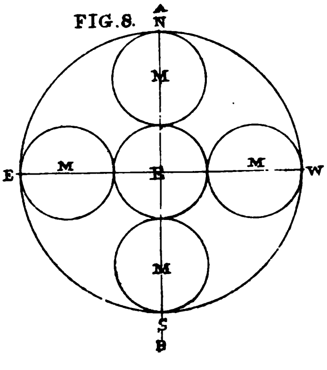
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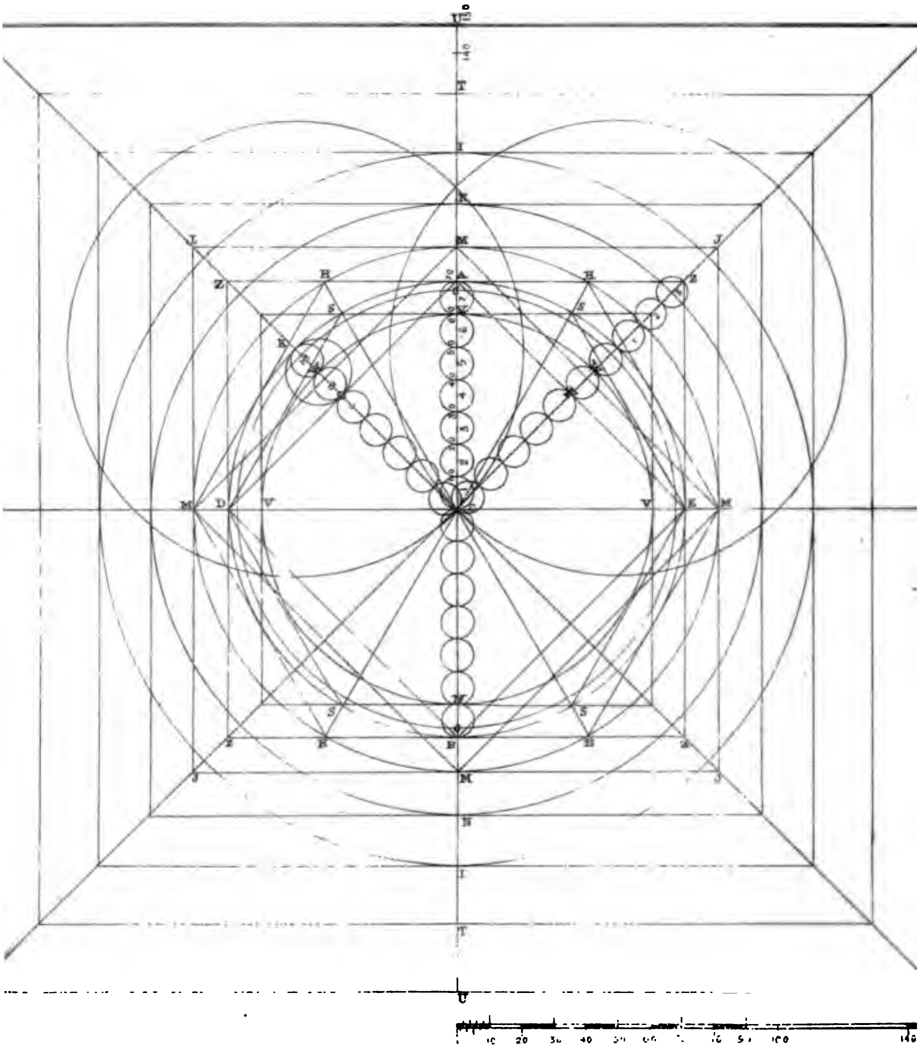

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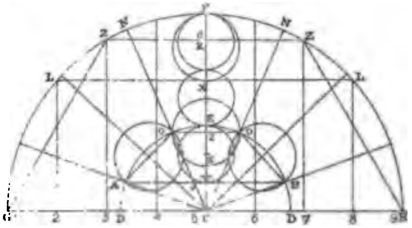

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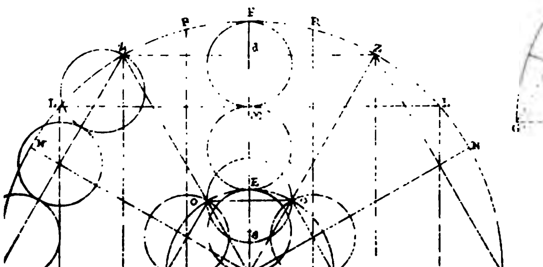

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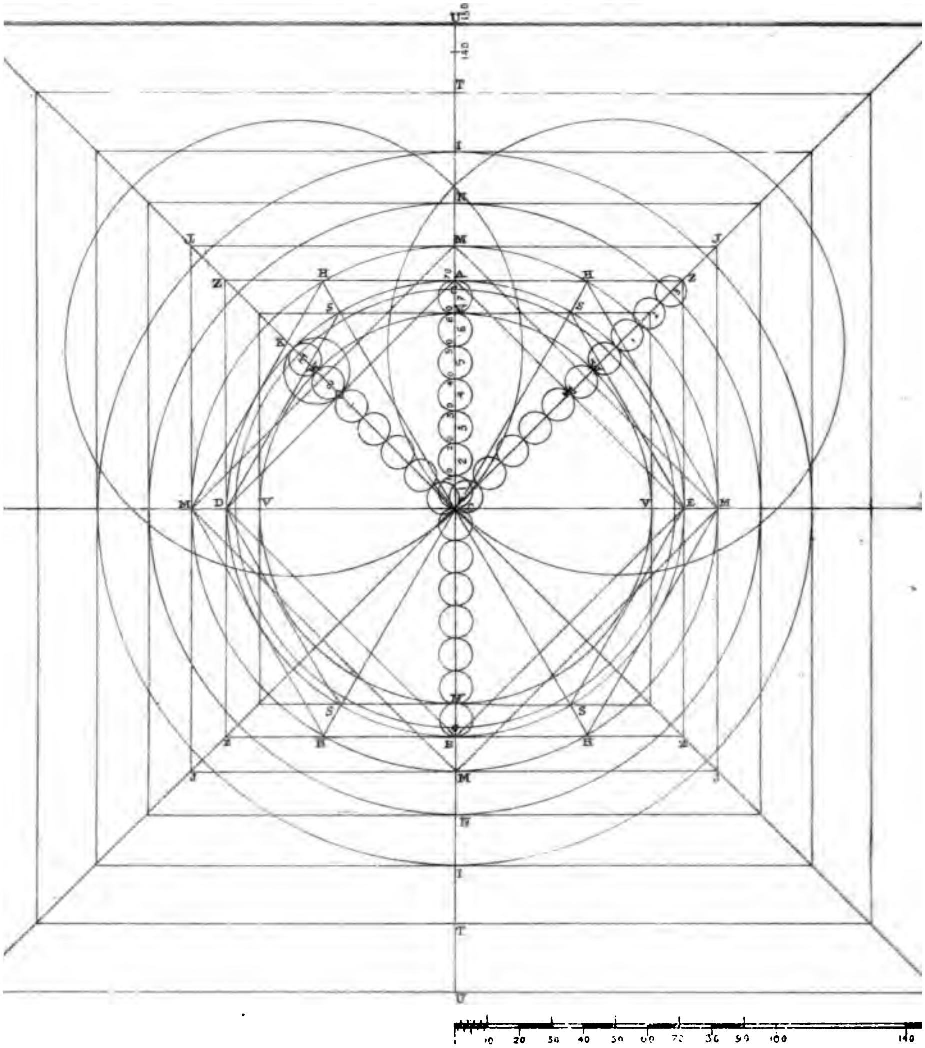

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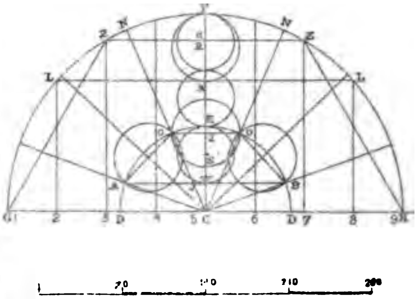

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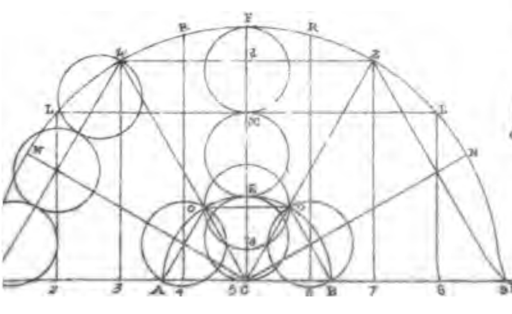

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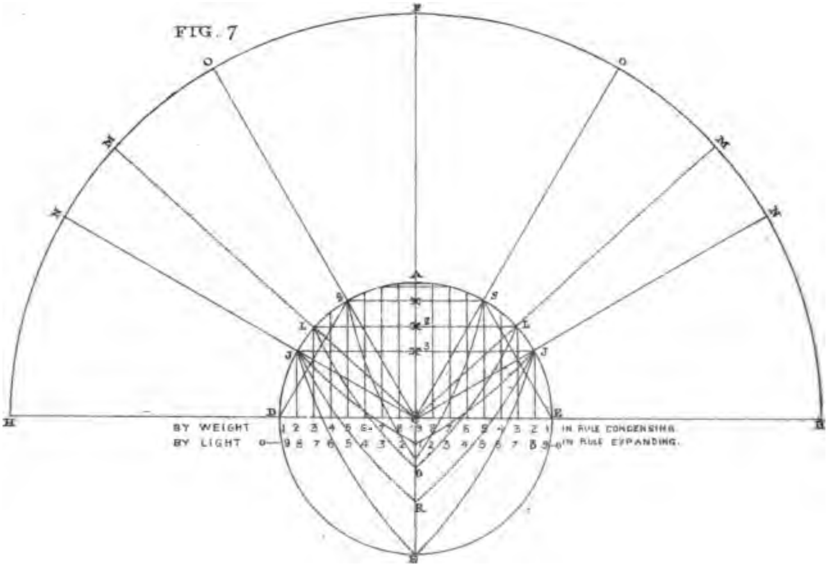

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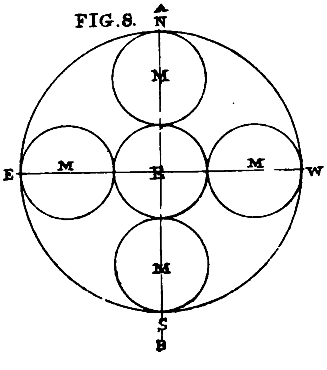

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